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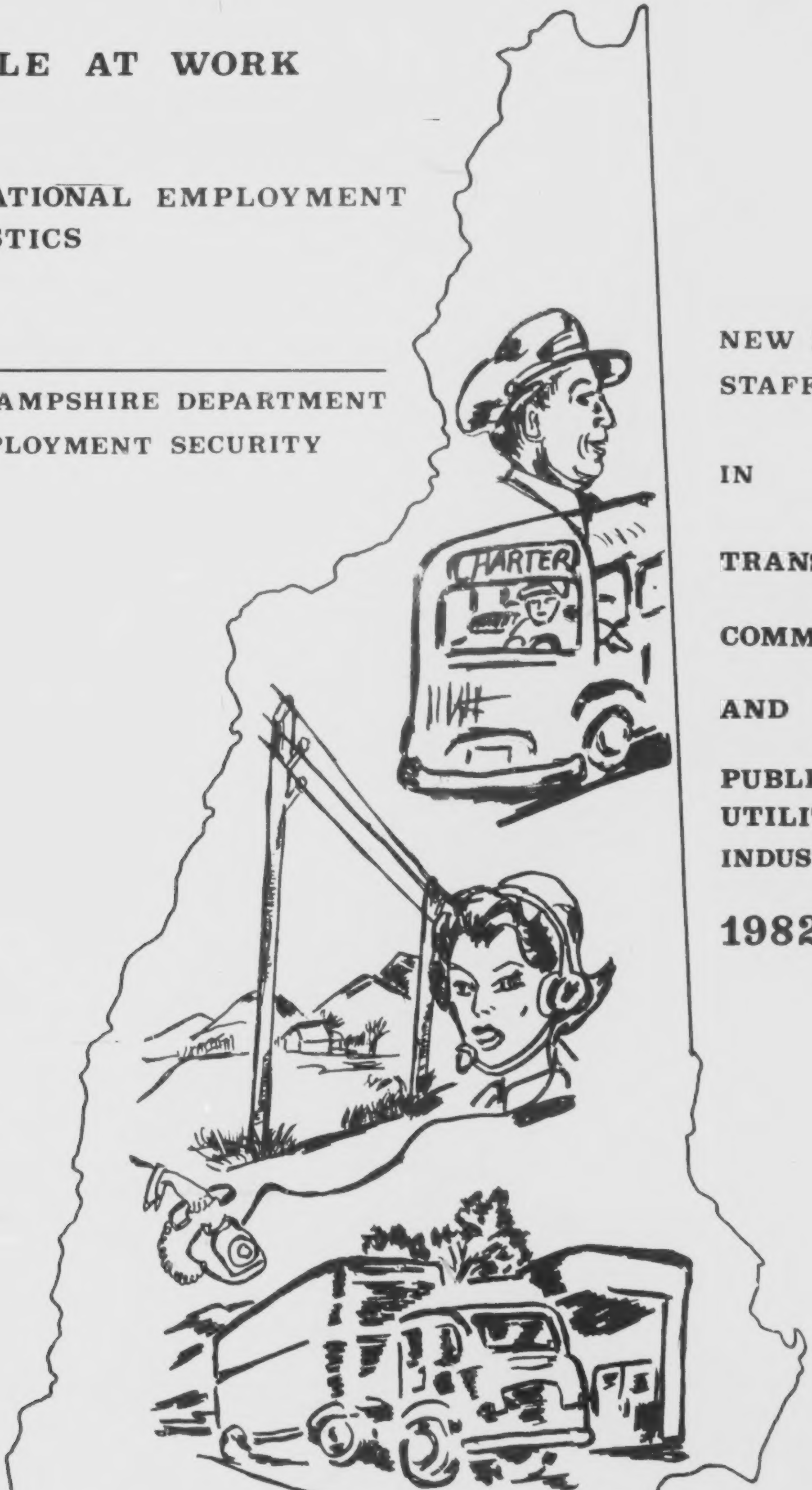
PEOPLE AT WORK

OCCUPATIONAL EMPLOYMENT STATISTICS

NEW HAMPSHIRE DEPARTMENT
OF EMPLOYMENT SECURITY



NEW HAMPSHIRE STAFFING PATTERNS

IN

TRANSPORTATION

COMMUNICATIONS

AND

PUBLIC UTILITIES INDUSTRIES

1982

NEW HAMPSHIRE STAFFING PATTERNS
IN
TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES INDUSTRIES

1982

An Occupational Employment Statistics Survey
Conducted by The
Economic Analysis and Reports Section
NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY
In Cooperation With The
U.S. BUREAU OF LABOR STATISTICS
AND THE
EMPLOYMENT AND TRAINING ADMINISTRATION
Using A Grant From The
NEW HAMPSHIRE STATE OCCUPATIONAL INFORMATION COORDINATING COMMITTEE

Published October 1983

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible. In particular,we wish to thank Donald W. Roberge, Executive Director of the New Hampshire SOICC for his support and cooperation.

We would also like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Mass. and the national level in Washington,D.C. for their technical assistance in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff: William Halm, with programming and data processing support provided by April Limber.

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid-1971 to meet the increasing demand for current occupational data. The program is based upon the collection of employment data by mail sampling selected sectors of the economy on a recurring three year cycle.

Publications of the first and second cycles include: Government (1974, 1977 and 1979); Trade (1976 and 1979); Manufacturing (1977 and 1980), Construction, Insurance, Finance, Real Estate and Services (1978); Educational Services (1978), Regulated Industries (1976 and 1979) and Hospitals (1980).

Between June and December 1982, the New Hampshire Department of Employment Security conducted an occupational employment survey of regulated industries by means of a questionnaire. This report is the first in the third survey cycle and was compiled from usable returns from the original mailing plus one follow up.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting the non-farm sector or any industry subdivision thereof.

The goal of the OES Program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

SUMMARY

OCCUPATIONAL EMPLOYMENT
IN
TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES INDUSTRIES

(Except Railroad Transportation and U.S. Postal Services)
SIC 40-49 (Except 40,43)

There were an estimated 14,120 wage and salary workers in the Transportation, Communication, and Public Utilities industries covered by the New Hampshire Unemployment Compensation Law during the survey period of the second quarter of 1982. Compared to a similar survey in 1979, employment in these industries grew by 913 workers or six percent.

The four major industrial groups presented in this occupational report by two-digit SIC (Standard Industrial Classification) were Passenger Transportation (SIC 41): Motor Freight Transportation and Warehousing (SIC 42): Communication (SIC 48); and Electric, Gas, and Sanitary Services (SIC 49). The communication industry employed the largest number of workers with 4,983 (24.5 percent) followed by Motor Freight Transportation and Warehousing with 3,469 workers (17.1 percent); Electric, Gas, and Sanitary Services with 3,336 workers or (7.4 percent): Passenger Transportation with 1,497 workers (10.6 percent). The remaining three industries in this segment of the economy, namely SIC 44, 45, and 47 combined to make up less than six percent of the total employment and each industry was too small to meet publication criteria in the OES (Occupational Employment Statistics) program.

Since the 1979 survey, the Communication industry grew by 587 workers (13 percent) while Electric, Gas, and Sanitary Services added 551 workers (20 percent). The Passenger Transportation industry only grew by 223 workers (7.4 percent) while Motor Freight Transportation and Warehousing lost 54 workers (2 percent).

Our sample consisted of 288 units representing an employment of 12,474. Usable responses were received from 212 units or 74 percent of the units sampled. The reported employment was 10,405.

STAFFING PATTERNS

LOCAL AND SUBURBAN TRANSIT AND INTERURBAN HIGHWAY PASSENGER TRANSPORTATION

(SIC 41)

OCCUPATIONAL TITLE	OES CODE	JUNE 1982 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		1/ 1,497	100.0	2/			
MANAGERS AND OFFICERS	10000	80	5.4	6	84	76	54.3
PROFESSIONAL OCCUPATIONS	20000	8	0.5	NA	–	–	NA
TECHNICAL OCCUPATIONS	30000	43	2.9				
Emergency Medical Technicians	35013	43	2.9	36	59	27	13.0
SERVICE OCCUPATIONS	40000	11	0.6	NA	–	–	NA
PRODUCTION OCCUPATIONS	50000	1,240	82.9				
Mechanics, Automotive	51008	58	3.9	8	63	53	41.3
All Other Mechanics and Repairers	51900	10	0.7	NA	–	–	NA
Bus Drivers	55A36	101	6.8	14	115	87	13.0
Cleaners, Vehicle	55A61	15	1.0	17	18	12	13.0
Taxi Drivers	55D09	205	13.7	4	212	198	23.9
Bus Drivers, School	55V05	786	52.5	2	800	772	50.0
All Other Skilled Craft and Kindred Workers	59001	8	0.5	NA	–	–	NA
All Other Operatives and Semiskilled Workers	59002	46	3.1	NA	–	–	NA
All Other Laborers and Unskilled Workers	59003	11	0.7	NA	–	–	NA
CLERICAL OCCUPATIONS	60000	114	7.6				
All Other Office Machine Operators	61199	1	0.1	NA	–	–	NA
Bookkeepers, Hand	61307	10	0.7	14	11	9	15.2
General Clerks, Office	61333	20	1.3	10	22	18	23.9
Payroll/Timekeeping Clerks	61351	12	0.8	18	14	10	13.0
Secretaries	61368	11	0.7	26	14	8	15.2
All Other Office Clerical Workers	61900	13	0.9	NA	–	–	NA
Dispatchers, Vehicle,Service	62018	41	2.7	8	44	38	28.3
All Other Plant Clerical Workers	62900	6	0.4	NA	–	–	NA
SALES OCCUPATIONS	70000	1	0.1	NA	–	–	NA

THE NINE OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

(SIC 41)

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1982 ESTIMATED EMPLOYMENT
1	55V05	Bus Drivers, School	786
2	55D09	Taxi Drivers	205
3	55A36	Bus Drivers	101
4	51008	Mechanics, Automotive	58
5	35013	Emergency Medical Technicians	43
6	62018	Dispatchers, Vehicle, Service	41
7	61333	General Clerks, Office	20
8	55A61	Cleaners, Vehicle	15
9	61351	Payroll/Timekeeping Clerks	12

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	55V05	Bus Drivers, School	50.0
2	51008	Mechanics, Automotive	41.3
3	62018	Dispatchers, Vehicle, Service	28.3
4	61333	General Clerks, Office	23.9
	55D09	Taxi Drivers	23.9

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, or a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

Accountants and Auditors
Accounting Clerks
Body Repairers, Automotive
Bookkeeping/Billing Machine Operators
Carpenters
Diesel Mechanics
Dispatchers, Police
Fuel Pump Attendants
Guards and Doorkeepers
Helpers, Trades
Janitors, Porters and Cleaners
Maintenance Repairers, General Utility
Meter Readers, Taxi
Oilers
Plumbers/Pipefitters
Supervisors, Nonworking
Switchboard Operators
Switchboard Operators/Receptionists
Ticket Agents
Tire Changers
Traffic Agents

STAFFING PATTERNS

MOTOR FREIGHT TRANSPORTATION

AND WAREHOUSING

(SIC 42)

OCCUPATIONAL TITLE	OES CODE	MAY 1982 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		1/ 3,469	100.0	2/			
MANAGERS AND OFFICERS	10000	354	10.3	12	395	313	92.9
PROFESSIONAL OCCUPATIONS	20000	28	0.8				
Accountants and Auditors	25401	16	0.5	34	21	11	12.5
All Other Professional Workers	29000	12	0.4	NA	–	–	NA
SERVICE OCCUPATIONS	40000	29	0.8	NA	–	–	NA
PRODUCTION OCCUPATIONS	50000	2,461	70.9				
All Other Mechanics and Repairers	51900	208	6.0	NA	–	–	NA
Truck Drivers, Heavy	54001	285	8.2	28	366	204	26.8
Tractor-Trailer Truck Drivers	54003	978	28.2	17	1,143	813	60.7
All Other Skilled Craft and Kindred Workers	59001	83	2.4	NA	–	–	NA
All Other Operatives and Semiskilled Workers	59002	435	12.5	NA	–	–	NA
All Other Laborers and Unskilled Workers	59003	472	13.6	NA	–	–	NA
CLERICAL OCCUPATIONS	60000	499	14.4				
Bookkeeping/Billing Machine Operators	61103	35	1.0	28	45	25	16.1
Bookkeepers, Hand	61307	42	1.2	28	54	30	19.6
General Clerks, Office	61333	114	3.3	22	139	89	41.1
Secretaries	61368	49	1.4	25	61	37	23.2
All Other Office Clerical Workers	61900	73	2.1	NA	–	–	NA
Dispatchers, Vehicle, Service	62018	82	2.4	14	93	71	41.1
Rate Clerks, Freight	62035	28	0.8	31	37	19	10.7
All Other Plant Clerical Workers	62900	76	2.2	NA	–	–	NA
SALES OCCUPATIONS	70000	98	2.8	NA	–	–	NA

THE NINE OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

(SIC 42)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1982 ESTIMATED EMPLOYMENT
1	54003	Tractor-Trailer Truck Drivers	978
2	54001	Truck Drivers, Heavy	285
3	61333	General Clerks, Office	114
4	62018	Dispatchers, Vehicle, Service	82
5	61368	Secretaries	49
6	61307	Bookkeepers, Hand	42
7	61103	Bookkeeping /Billing Machine Operators	35
8	62035	Rate Clerks, Freight	28
9	25401	Accountants and Auditors	16

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	54003	Tractor-Trailer Truck Drivers	60.7
2	61333	General Clerks, Office	41.1
	62018	Dispatchers, Vehicle, Service	41.1
3	54001	Truck Drivers, Heavy	26.8
4	61368	Secretaries	23.2

STAFFING PATTERNS

MOTOR FREIGHT TRANSPORTATION AND WAREHOUSING

(SIC 42)

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

- Accounting Clerks
- Adjustment Clerks
- Carpenters
- Cashiers
- Claim Adjusters
- Computer Operators
- Crating and Moving Estimators
- Craters
- Crane, Derrick, & Hoist Operators
- Delivery and Route Workers
- Diesel Mechanics
- File Clerks
- Fuel Pump Attendants
- Guards and Doorkeepers
- Helpers, Trades
- Industrial Truck Operators
- Janitors, Porters & Cleaners
- Keypunch Operators
- Manifest Clerks
- Maintenance Repairers, General Utility
- Mechanics, Automotive
- Payroll & Timekeeping Clerks
- Purchasing Agents/Buyers
- Refuse Collectors
- Shipping Packers
- Shipping/Receiving Clerks
- Stock Clerk, Stockroom, Warehouse or Storage Yard
- Supervisors, Nonworking
- Systems Analyst, Electronic Data Processing
- Switchboard Operators/Receptionists
- Tire Changers
- Traffic Agents
- Truck Drivers, Light
- Truck Driver Helpers
- Typists
- Welders and Flamecutters

STAFFING PATTERNS

COMMUNICATION

(SIC 48)

OCCUPATIONAL TITLE	OES CODE	MAY 1982 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		1/ 4,983	100.0	2/			
MANAGERS AND OFFICERS	10000	538	10.8	2	548	528	96.8
PROFESSIONAL OCCUPATIONS	20000	337	6.8				
Electrical and Electronic Engineers	21005	24	0.5	26	30	18	25.8
Announcers	25409	155	3.1	10	171	139	38.7
Broadcast New Analysts	25412	45	0.9	20	54	36	22.6
Writers/Editors	25436	33	0.7	27	42	24	29.0
All Other Professional Workers	29000	80	1.6	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	231	4.6				
Electrical and Electronic Technicians	32004	191	3.8	4	199	183	32.3
All Other Engineering Technicians	32900	40	0.8				
SERVICE OCCUPATIONS	40000	37	0.7				
Janitors, Porters & Cleaners	41000	30	0.6	9	33	27	25.8
All Other Service Workers	49000	7	0.1	NA	-	-	NA
PRODUCTION WORKERS	50000	1,738	34.9				
All Other Mechanics and Repairers	51900	34	0.7	NA	-	-	NA
Cable Splicers	55A43	210	4.2	1	212	208	16.1
Central Office Repairers	55A55	142	2.8	2	144	140	16.1
Supervisors, Nonworking	55B29	428	8.6	11	431	425	22.6
Installer Repairer/Section Maintainers	55B59	165	3.3	12	185	145	29.0
Line Installers-Repairers	55B73	155	3.1	3	159	151	25.8
All Other Skilled Craft and Kindred Workers	59001	562	11.3	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	39	0.8	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	3	0.1	NA	-	-	NA

STAFFING PATTERNS

COMMUNICATION

(SIC 48)

OCCUPATIONAL TITLE	OES CODE	MAY 1982 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
CLERICAL OCCUPATIONS	60000	1,940	39.0				
All Other Office Machine Operators	61109	13	0.3	NA	-	-	NA
Accounting Clerks	61301	193	3.9	2	196	190	25.8
Bookkeepers, Hand	61307	14	0.3	45	20	8	16.1
General Clerks, Office	61333	444	8.9	2	454	434	58.1
Secretaries	61368	28	0.6	21	34	22	41.9
Traffic Clerks	61386	21	0.4	25	26	16	22.6
Central Office Operators	61430	354	7.1	2	361	347	16.1
All Other Office Clerical Workers	61900	662	13.3	NA	-	-	NA
Stock Clerks, Stockroom, Warehouse, or Storage Yard	62008	39	0.8	2	40	38	9.7
All Other Plant Clerical Workers	62900	172	3.4	NA	-	-	NA
SALES OCCUPATIONS	70000	162	3.2				
Sales Representatives	71000	121	2.4	17	142	100	48.4
Sales Clerks	72002	41	0.8	17	48	34	9.7

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

(SIC 48)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1982 ESTIMATED EMPLOYMENT
1	61333	General Clerks, Office	444
2	55B29	Supervisors, Nonworking	428
3	61430	Central Office Operators	354
4	55A43	Cable Splicers	210
5	61301	Accounting Clerks	193
6	32004	Electrical and Electronic Technicians	191
7	55B73	Line Installers-Repairers	155
	25409	Announcers	155
8	55A55	Central Office Repairers	142
9	71000	Sales Representatives	121

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	61333	General Clerks, Office	58.1
2	71000	Sales Representatives	48.4
3	61368	Secretaries	41.9
4	25409	Announcers	38.7
5	32004	Electrical and Electronic Technicians	32.3

STAFFING PATTERNS

COMMUNICATION

(SIC 48)

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, or a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

Accountants and Auditors
Adjustment Clerks
Bookkeeping/Billing Machine Operators
Broadcast Technicians
Cashiers
Clerical Supervisors
Collectors
Commercial Artists
Computer Operators
Computer Programmers
Customer Service Representatives
Electronic Mechanics
Inspectors
Maintenance Repairers, General Utility
Mechanics, Automotive
Payroll/Timekeeping Clerks
Personnel Clerks
Personnel and Labor Relations Specialists
Photographers
Private Branch Service Advisors
Production Clerks/Coordinators
Public Relations Practitioners
Purchasing Agents/Buyers
Reporters and Correspondents
Sound Recording and Reproduction Technicians
Statistical Clerks
Stationary Engineers
Station Installers
Supervisors, Nonworking-Service Only
Systems Analyst, Electronic Data Processing
Switchboard Operators/Receptionists
Technical Directors
Trouble Locators
Typists

STAFFING PATTERNS

ELECTRIC, GAS, AND SANITARY SERVICES

(SIC 49)

OCCUPATIONAL TITLE	OES CODE	APRIL 1982 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS	-	3,336	100.0				
MANAGERS AND OFFICERS	10000	358	10.7				
PROFESSIONAL OCCUPATIONS	20000	404	11.3				
Civil Engineers	21004	20	0.6	19	24	16	10.7
Electrical and Electronic Engineers	21005	60	1.8	6	63	57	17.9
All Other Engineers	21900	38	1.1	NA	-	-	NA
Purchasing Agents/Buyers	25300	15	0.5	8	16	14	17.9
Accountants and Auditors	25401	54	1.6	8	58	50	39.3
Personnel and Labor Relations Specialists	25465	20	0.6	3	21	19	14.3
All Other Professional Workers	29000	197	5.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	165	5.0				
Estimators and Drafters, Utilities	32021	22	0.7	4	23	21	10.7
All Other Engineering Technicians	32900	74	2.2	NA	-	-	NA
All Other Technicians	39000	69	2.1	NA	-	-	NA
SERVICE OCCUPATIONS	40000	15	0.4	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	1,512	45.2				
Mechanics, Automotive	51008	34	1.0	7	36	32	25.0
Electric-Meter Installers, Cut-in, Cut-out, or Outside	51027	59	1.8	5	62	56	17.9
All Other Mechanics and Repairers	51900	192	5.7	NA	-	-	NA
Truck Drivers	54000	61	1.8	14	69	53	14.3
Electricians	55B12	94	2.8	0	94	94	7.1
Supervisors, Nonworking	55B29	203	6.1	2	207	199	64.3
Ground Workers, Utilities	55B49	13	0.4	21	16	10	14.3
Inspectors	55B58	10	0.3	24	12	8	17.9
Line-Installers Repairers	55B73	397	11.9	4	412	382	42.9
Maintenance Repairers, General Utilities	55B86	55	1.6	11	61	49	32.1

STAFFING PATTERNS

ELECTRIC, GAS, AND SANITARY SERVICES

(SIC 49)

OCCUPATIONAL TITLE	OES CODE	APRIL 1982 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Refuse Collectors	55C51	16	0.5	29	21	11	10.7
Welders and Flamecutters	55D46	17	0.5	25	21	13	10.7
All Other Skilled Craft and Kindred Workers	59001	288	8.6	NA	–	–	NA
All Other Operatives and Semiskilled Workers	59002	23	0.7	NA	–	–	NA
All Other Laborers and Unskilled Workers	59003	50	1.5	NA	–	–	NA
CLERICAL OCCUPATIONS	60000	863	26.8				
Bookkeeping/Billing Machine Operators	61103	12	0.4	26	15	9	17.9
Computer Operators	61105	18	0.5	6	19	17	17.9
Keypunch Operators	61107	17	0.5	9	19	15	17.9
All Other Office Machine Operators	61199	8	0.2	NA	–	–	NA
Accounting Clerks	61301	19	0.6	19	23	15	28.6
Bookkeepers, Hand	61307	11	0.3	33	15	7	17.9
Cashiers	61314	23	0.7	17	27	19	35.7
Collectors	61319	22	0.7	4	23	21	28.6
General Clerks, Office	61333	190	5.7	3	196	184	42.9
Secretaries	61368	52	1.6	7	56	48	42.9
Clerical Supervisors	61396	19	0.6	12	21	17	14.3
Customer Service Representatives	61435	118	3.5	6	125	111	17.9
All Other Office Clerical Workers	61900	86	2.5	NA	–	–	NA
Meter Readers, Utilities	62002	162	4.8	4	169	155	64.3
Stock Clerks, Stockroom, Warehouse, or Storage Yard	62008	69	2.1	2	71	67	25.0
All Other Plant Clerical Workers	62900	37	1.1	NA	–	–	NA
SALES OCCUPATIONS	70000	19	0.6				
Sales Representatives	71000	19	0.6	9	21	17	25.0

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1982 ESTIMATED EMPLOYMENT
1	55B73	Line Installers-Repairers	397
2	55B29	Supervisors, Nonworking	203
3	61333	General Clerks, Office	190
4	62002	Meter Readers, Utilities	162
5	61435	Customer Service-Representatives	118
6	55B12	Electricians	94
7	62008	Stock Clerks, Stockroom, Warehouse or Storage Yard	69
8	54000	Truck Drivers	61
9	21005	Electrical and Electronic Engineers	60
10	51027	Electric-Meter Installers, Cut-in, Cut-out or Outside	59

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	55B29	Supervisors, Nonworking	64.3
	62002	Meter Readers, Utilities	64.3
2	55B73	Line Installers-Repairers	42.9
	61333	General Clerks, Office	42.9
	61368	Secretaries	42.9

STAFFING PATTERNS

ELECTRIC, GAS, AND SANITARY SERVICES

(SIC 49)

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, or a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

Adjustment Clerks
Auxiliary Equipment Operators
Cable Splicers
Chemical Engineers
Computer Programmers
Control Room Operators
Corrosion Control Fitters
Delivery and Route Workers
Diesel Mechanics
Dispatchers, Gas
Dispatchers, Load
Dispatchers, Vehicle Service
Drafters
Electrical and Electronic Technicians
Electrical Instrument Repairers
File Clerks
Gas-Compressor Operators
Gas and Electric Appliance Repairers
Gas Meter Installers
Gas-Pumping-Station Operators
Guards and Doorkeepers
Heavy Equipment Operators
Helpers, Trades
Hydroelectric-Machinery Mechanics
Industrial Engineers
Instrument Repairers
Janitors, Porters, and Cleaners
Lawyers
Mechanical Engineers
Mechanical Engineering Technicians
Natural and Mathematical Scientists
Nuclear Engineers
Oilers
Painters, Maintenance
Payroll/Timekeeping Clerks
Peripheral EDP Equipment Operators
Pipelayers
Plumbers/Pipefitters
Power Reactor Operators
Power Transformer Repairers
Right-of-Way Agents
Science Technicians
Shipping/Receiving Clerks
Substation Operators
Supervisors, Nonworking Service Only
Surveyor Helpers
Surveyors
Switchboard Operators
Switchboard Operators/Receptionists
Systems Analysts, Electronic Data Processing
Treatment-Plant, Mechanics
Trouble Shooters, Power Line
Turbine Operators
Typists
Water Treatment Plant Operators

METHODOLOGY

A. Sample

The second quarter of 1981 report of employment and wages covered by the New Hampshire Unemployment Compensation law was used as the sampling frame for this survey. The transportation and public utilities establishments were stratified by three digit SIC's (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1982 as designated by the U.S. Bureau of Labor Statistics. The survey was conducted by mail and consisted of an initial mailing and one follow-up. Phone calls and personal visits were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4-9 would be in one size class and those with employment of 10-19 would be in another size class, etc. Any one size class in any one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 75, and one out of every three establishments in this estimating cell is included in the sample,the weight assigned to this establishment would be the inverse of 1/3 which is 3, and for estimating purposes, the 75 employment will have a representation of 225 (3 X 75). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the proper survey month (April, May or June 1982). This yields the occupational makeup of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within each three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for and occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, weights assigned to establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associated sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somehwere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, motor freight transportation and warehousing (SIC 42) lists an estimated total of 978 tractor-trailer truck drivers with a relative error of 17 percent. This indicates, at the 68 percent confidence level, the results of a universe count of tractor-trailer truck drivers would not differ by more than 165 or an estimated high of 1,143 or low of 813. Any occupation with a relative error greater than 50 percent was not published except in the case of SIC 42 where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibilty of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

APPENDIX

All OES surveys provide for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000 Managers and Officers:

Includes persons concerned with managerial functions common to many types of organization as well as occupations which require a knowledge of the management and operations of the given organizations. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000 Professional Occupations:

Includes persons concerned with the theoretical or practical aspects of such fields as science, engineering, technical work, art, education, medicine, law and business relations. Most of these occupations require substantial educational preparation, usually at the university level. Typical examples are: Architects; Engineers (including Sales Engineers); Metallurgists; Physicists; Mathematicians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioner; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers.

30000 Technical Occupations:

Includes all persons actually engaged in technical work utilizing theoretical knowledge of fundamental scientific, engineering, mathematical, computer programming or draft design principles comparable to those acquired through study at technical institutes, junior colleges or other formal post high school training less extensive than a four year college course, or through equivalent on-the-job training or experience.

40000 Service Occupations

Includes those workers in occupations concerned with the performance of services for persons that require either direct contact or close association with the individual; occupations concerned with the protection of individuals or of public or private property; occupations concerned with preparing and serving food and beverages; and occupations related to the cleaning of the interior and equipment of buildings, offices, stores, and similar places.

50000 Includes all skilled, semiskilled, and unskilled workers performing machine and manual tasks involving maintenance, construction, repair, material handling and production.

60000 Clerical Occupations:

Includes clerical personnel whose work involves preparing, transcribing, transferring, systematizing and preserving communications and records; collating accounts; distributing information. Also includes clerical workers involved in planning, coordinating or expediting production and the flow of work and workers involved in the clerical aspects of receiving, storing, issuing or shipping of materials, merchandise, supplies, or equipment.

70000 Sales Occupations:

Includes persons concerned wholly or primarily with selling when knowledge of the goods or services sold is required. Excludes Sales Engineers (see Professional and Technical Workers) and Cashiers (see Clerical Workers).

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Because of data not published, occupations may not add up to total. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the percent distribution. Please refer to technical notes for an explanation of relative error.

N.A. Not Applicable

55205-210-U

PEOPLE AT WORK

OCCUPATIONAL EMPLOYMENT STATISTICS

NEW HAMPSHIRE STAFFING PATTERNS IN HOSPITALS

1983

Operating Room
Admittance
X-RAY
AMBULANCE
Osteopathic Department

NEW HAMPSHIRE DEPARTMENT
OF EMPLOYMENT SECURITY

OCCUPATIONAL STAFFING PATTERNS

OF

HOSPITALS IN NEW HAMPSHIRE

1983

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

Published March 1985

Wesley S. Noyes, Jr., Supervisor

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible. Special thanks is given to Edmond Duchesne, Financial Analyst, Bureau of Institutional Health Services for providing us with data on completed and proposed hospital projects for the years 1983 and 1984.

We would also like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Mass. and the national level in Washington, D.C. for their technical assistance in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, and other Research staff including; Tracey Petrozzi, and Madaline Shanelaris, with programming and data processing support provided by Charles Marshall.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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Occupational Employment Statistics Unit
32 South Main Street
Concord, New Hampshire 03301

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INTRODUCTION

The United States Department of Labor initiated the OES program in mid-1971 to meet the increasing demand for current occupational data. The program is based upon the collection of employment data by mail sampling selected sectors of the economy on a recurring three year cycle.

Publications of the first, second and third cycles include: Government (1974, 1977, 1979 and 1982); Trade (1976, 1979 and 1982); Manufacturing (1977 and 1980), Construction, Insurance, Finance, Real Estate and Services (1978); Educational Services (1978), Regulated Industries (1976, 1979, 1982) and Hospitals (1980).

Between June 1983 and April 1984, the New Hampshire Department of Employment Security conducted an occupational employment survey of Hospitals in New Hampshire ...by means of a questionnaire. This report is the second in the third survey cycle and was compiled from usable returns from the original plus one follow up.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting the non-farm sector or any industry subdivision thereof.

The goal of the OES Program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

All data presented in this publication on Hospitals in New Hampshire include employment data for private hospitals, State hospitals, and local government hospitals. Federal Government hospitals (such as Veterans Administration) were excluded because occupational employment data for these units were included in the publication for Government (1980-1982).

A new coding structure was used for the Manufacturing and Hospital survey. (See appendix.) The total number of occupations were reduced from 1,606 to 720 to more nearly agree with the number used by the Standard Occupational Classification (SOC) system and the Census which use 663 and 503 occupational titles respectively.

SUMMARY

OCCUPATIONAL EMPLOYMENT

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

This group includes establishments primarily engaged in providing diagnostic services, extensive medical treatment including surgical services, and other hospital services, as well as continuous nursing services. These establishments have an organized medical staff, inpatient beds, and equipment and facilities to provide complete health care.

During the month of April 1983 there were an estimated 14,124 hospital workers in New Hampshire. More than half of these workers held jobs in the professional, paraprofessional and technical occupational group. This group was largely made up of Registered Nurses and Licensed Practical Nurses which together accounted for more than two-thirds of the workers. The next largest occupational group was services which accounted for almost 22 percent of the hospital jobs. This group was largely made up of nursing aides, orderlies, and attendants (34.0 percent) and maids and houskeeping cleaners (17.2 percent). There were 91 specific occupations employing ten or more workers and the five employing the largest number of workers accounted for more than half of all hospital in New Hampshire.

HOSPITALS IN NEW HAMPSHIRE
(SIC 806)

THE FIFTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	32502	Registered Nurses	4,177	29.6
2	32505	Licensed Practical Nurses	1,063	7.5
3	66008	Nursing Aides, Orderlies and Attendants	1,039	7.4
4	67002	Maids and Houskeeping Cleaners	525	3.7
5	32902	Medical and Clinical Laboratory Technologists	353	2.5
6	65038	Food Preparation Workers	343	2.4
7	55105	Medical Secretaries	266	1.9
8	32921	Radiologic Technicians	194	1.4
9	55308	Typists	189	1.3
10	57102	Switchboard Operators	183	1.3
11	55332	Interviewing Clerks	170	1.2
12	32302	Respiratory Therapists	151	1.1
13.	32917	Radiologic Technologists	145	1.0
14	55344	Billing, Cost and Rate Clerks	142	1.0
15	32905	Medical and Clinical Laboratory Technicians	135	1.0

HOSPITALS IN NEW HAMPSHIRE
(SIC 8060)

THE SIXTEEN MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL	PERCENT OF FIRMS REPORTING
1	32502	Registered Nurses	100.0
	32505	Licensed Practical Nurses	100.0
	65028	Cooks, Institution Or Cafeteria	100.0
	66008	Nursing Aides, Orderlies, and Attendants	100.0
5	67002	Maids and Housekeeping Cleaners	95.8
	85132	Maintenance Repairers, General Utility	95.8
7	32308	Physical Therapists	91.7
	32517	Pharmacists	91.7
	32911	Medical Records Technicians and Technologists	91.7
	57102	Switchboard Operators	91.7
11	15008	Medicine and Health Services Managers	87.5
	32521	Dieticians and Nutritionists	87.5
	32902	Medical and Clinical Laboratory Technologists	87.5
14	19005	General Managers and Top Executives	83.3
	61008	Housekeepers	83.3
	65038	Food Preparation Workers	83.3

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
TOTAL OCCUPATIONS		14,124	100.0	
MANAGERS AND ADMINISTRATORS	10000-19999	433	3.1	
Financial Managers	13002	30	0.2	79.2
Personnel, Training, And Labor Relations Managers	13005	26	0.2	70.8
Purchasing Managers	13008	22	0.2	58.3
Marketing, Advertising, And Public Relations Managers	13011	18	0.1	41.7
Medicine And Health Services Managers	15008	133	0.9	87.5
Food Service And Lodging Managers	15026	21	0.2	54.2
General Managers And Top Executives	19005	40	0.3	83.3
All Other Managers And Administrators	19999	143	1.0	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	7,693	54.5	
Accountants and Auditors	21114	32	0.2	62.5
All Other Financial Specialists	21199	15	0.1	NA
Purchasing Agents	21308	21	0.2	54.2
Personnel, Training, And Labor Relations Specialists	21511	24	0.2	37.5
Compliance Officers And Enforcement Inspectors	21911	18	0.1	12.5
All Other Management Support Workers	21999	41	0.3	NA
All Other Engineers	22199	15	0.1	NA
All Other Engineering And Related Technicians	22599	4	*	NA
All Other Physical Scientists	24199	12	0.1	NA
All Other Life Scientists	24399	13	0.1	NA
All Other Physical And Life Science Technicians	24599	28	0.2	NA
Computer Programmers	25105	12	0.1	20.8
Computer Programmer Aides	25108	15	0.1	20.8

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Mathematical Scientists	25319	7	0.1	NA
All Other Social Scientists	27199	21	0.1	NA
Social Workers, Medical And Psychiatric	27302	94	0.7	75.0
Social Workers, Except Medical And Psychiatric	27305	16	0.1	25.0
Social Service Technicians	27308	12	0.1	16.7
Nursing Instructors	31114	85	0.6	50.0
All Other Teachers And Instructors	31399	73	0.5	NA
Librarians, Professional	31502	16	0.1	50.0
Technical Assistants, Library	31505	10	0.1	12.5
Physicians And Surgeons	32102	11	0.1	12.5
All Other Health Diagnosing And Treating Practitioners	32199	1	*	NA
Respiratory Therapists	32302	151	1.1	79.2
Occupational Therapists	32305	42	0.3	41.7
Physical Therapists	32308	119	0.8	91.7
Speech Pathologists And Audiologists	32314	18	0.1	25.0
All Other Therapists	32399	25	0.2	NA
Registered Nurses	32502	4,177	29.6	100.0
Licensed Practical Nurses	32505	1,063	7.5	100.0
Emergency Medical Technicians	32508	64	0.4	25.0
Physicians Assistants	32511	11	0.1	12.5
Pharmacists	32517	105	0.7	91.7
Dieticians and Nutritionists	32521	39	0.3	87.5
Dietetic Technicians	32523	61	0.4	45.8
Medical and Clinical Laboratory Technologists	32902	353	2.5	87.5
Medical and Clinical Laboratory Technicians	32905	135	1.0	70.8
Medical Records Technicians and Technologists	32911	80	0.6	91.7
Nuclear Medicine Technologists	32914	24	0.2	33.3
Radiologic Technologists	32917	145	1.0	45.8
Radiologic Technicians	32921	194	1.4	66.7
Electroencephalograph Technicians and Technologists	32923	32	0.2	33.3
Electrocardiograph Technicians And Technologists	32926	77	0.5	62.5
Surgical Technicians	32928	73	0.5	58.3

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Health Professionals And Technicians	32999	81	0.6	NA
Public Relations Specialists And Publicity Writers	34008	19	0.1	45.8
All Other Professional, Paraprofessional And Technical Workers	39999	9	0.1	NA
SALES OCCUPATIONS	40000-49999	38	0.2	
Cashiers	49023	38	0.2	54.2
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	2,297	16.2	
First Line Supervisors And Manager/Supervisors	51002	107	0.7	79.2
Medical Secretaries	55105	266	1.9	75.0
All Other Secretaries	55199	381	2.6	NA
Stenographers	55302	32	0.2	16.7
Receptionists And Information Clerks	55305	108	0.8	50.0
Typists	55308	189	1.3	79.2
Personnel Clerks	55314	24	0.2	45.8
File Clerks	55321	77	0.5	45.8
Order Clerks	55323	11	0.1	16.7
Procurement Clerks	55326	11	0.1	45.8
Statistical Clerks	55328	29	0.2	33.3
Interviewing Clerks	55332	170	1.2	41.7
Bookkeeping, Accounting And Auditing Clerks	55338	67	0.5	79.2
Payroll & Timekeeping Clerks	55341	20	0.2	58.3
Billing, Cost And Rate Clerks	55344	142	1.0	75.0
General Office Clerks	55347	82	0.6	45.8
Billing, Posting, And Calculating Machine Operators	56002	29	0.2	16.7
Computer Operators	56011	26	0.2	33.3
Data Entry Keyers	56017	36	0.3	62.5
All Other Office Machine Operators	56099	8	0.1	NA
Switchboard Operators	57102	183	1.3	91.7

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	75	0.5	66.7
All Other Material Recording Scheduling And Distribution Workers	58099	15	0.1	NA
All Other Clerical And Administrative Support Workers	59999	209	1.4	NA
SERVICE OCCUPATIONS	60000-69999	3,060	21.7	
Housekeepers	61008	130	0.9	83.3
All Other Service Supervisors And Managers	61099	33	0.2	NA
Guards And Watch Guards	63047	131	0.9	45.8
Food Servers, Outside	65011	52	0.4	16.7
Dining Room And Cafeteria Attendants	65014	96	0.7	12.5
Counter Attendants, Food	65017	60	0.4	29.2
Bakers, Bread And Pastry	65021	11	0.1	29.2
Cooks, Institution Or Cafeteria	65028	106	0.8	100.0
Cooks, Short Order	65035	21	0.2	25.0
Food Preparation Workers	65038	345	2.4	83.3
All Other Food Service Workers	65099	70	0.5	NA
Medical Assistants	66005	28	0.2	25.0
Nursing Aides, Orderlies, And Attendants	66008	1,039	7.4	100.0
Physical And Corrective Therapy Assistants And Aides	66017	46	0.3	58.3
Occupational Therapy Assistants And Aides	66021	18	0.1	25.0
Pharmacy Assistants	66026	90	0.6	62.5
All Other Health Service Workers	66099	148	1.1	NA
Maids And Housekeeping Cleaners	67002	525	3.7	95.8
Janitors And Cleaners	67005	90	0.6	58.3
All Other Cleaning And Building Service Workers	67099	15	0.1	NA
All other Service Workers	69999	6	0.1	NA

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	28	0.2	
Gardeners And Groundskeepers	79014	28	0.2	45.8
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	575	4.1	
First Line Supervisors And Manager/Supervisors	81002	26	0.2	50.0
All Other First Line Supervisors And Manager/Supervisors	81099	3	*	NA
Machinery Maintenance Mechanics	85110	50	0.4	25.0
Maintenance Repairers General Utility	85132	86	0.6	95.8
Heating, Air Conditioning, And Refrigeration Mechanics	85902	22	0.2	16.7
Electromedical And Biomedical Equipment Repairers	85908	16	0.1	25.0
All Other Mechanics, Installers And Repairers	85999	13	0.1	NA
Carpenters	87102	18	0.1	41.7
Electricians	87202	25	0.2	41.7
Painters And Paperhangers	87402	22	0.2	37.5
Plumbers And Pipefitters	87502	18	0.1	33.3
All other Construction Trade Workers	87899	2	*	NA
All Other Precision Workers	89999	2	*	NA
Sewing Machine Operators, Non-Garment	92721	11	0.1	16.7
Laundry And Drycleaning Machine Operators	92726	88	0.6	45.8
Pressing Machine Operatos	92728	17	0.1	16.7
Boiler Operators, Low Pressure	92926	29	0.2	37.5

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

(SIC 806)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	PERCENT OF FIRMS REPORTING
All Other Machine Setters And Set-Up Operators	92997	16	0.1	NA
All Other Machine Operators	92998	2	*	NA
All Other Hand Workers	93999	13	0.1	NA
All Other Plant And System Operators	95099	4	*	NA
All Other Motor Vehicle Operators	97199	23	0.2	NA
All Other Helpers, Laborers, And Material Movers, Hand	98000	69	0.5	12.5

* Less than 0.05 percent

STAFFING PATTERNS

HOSPITALS IN NEW HAMPSHIRE

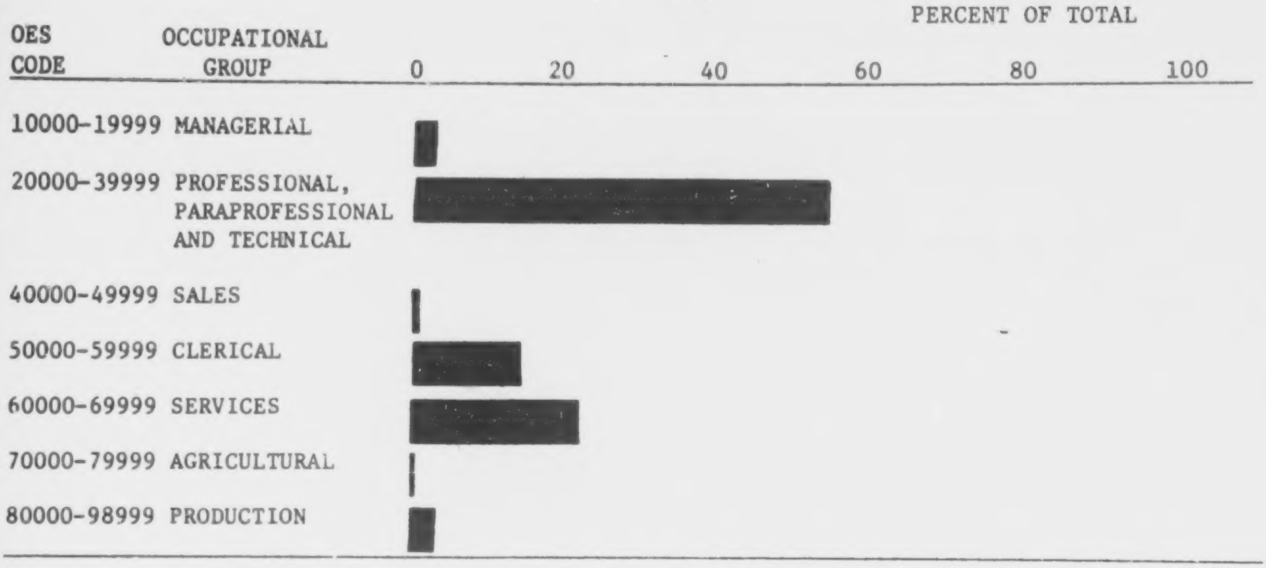
(SIC 806)

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Barbers
Biological and Agricultural
 Technicians and Technologists
Biological Scientists
Budget Analysts
Chemists
Chemical Technicians and Technologists, Except
 Health
Clergy
Dentists
Dental Assistants
Dental Hygienists
Dispatchers
Electrical and Electronic
 Engineers
Electrical and Electronic
 Technicians and Technologists
First Line Supervisors and Manager/
 Supervisors-Construction Trades and
 Extractive Workers
Hairdressers, Hairstylists, and Cosmetologists
Hand Sewers
Industrial Engineers, Except Safety
Library Assistants and Bookmobile Drivers
Menders
Peripheral EDP Equipment Operators
Recreational Therapists
Stationary Engineers
Systems Analysts
Teachers and Instructors,
 Vocational Education and Training
Traffic, Shipping, and Receiving Clerks
Typists, Word Processor

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

HOSPITALS IN NEW HAMPSHIRE (SIC 806)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1983
HOSPITALS IN NEW HAMPSHIRE**
(SIC 806)

YEAR	ANNUAL AVERAGE	PERCENT CHANGE
1972	9.6	-
1973	10.2	6.3
1974	10.7	4.9
1975	11.3	5.6
1976	11.6	2.7
1977	11.9	2.6
1978	12.3	3.4
1979	12.4	0.8
1980	13.0	4.1
1981	13.8	6.5
1982	14.0	1.3
1983	14.4	2.7

* ES-202 EMPLOYMENT

* * INCLUDES STATE AND LOCAL GOVERNMENT HOSPITALS

APPENDIX

I. HOSPITAL MODERNIZATION PROJECTS* 1983 - 84

MARY HITCHCOCK MEMORIAL, HANOVER, NH

PROJECT: Construction/Renovation Hospital Facilities
PROJECT AMOUNT: $62,210,000
DATE OF APPROVAL: 0/6/24/83

NEW LONDON HOSPITAL, NEW LONDON, NH

PROJECT: Remodel Hospital and Expand Outpatient Area
PROJECT AMOUNT: $1,666,434
DATE OF APPROVAL: 11/01/83

WENTWORTH-DOUGLASS, DOVER, NH

PROJECTS: Add Radiation Therapy Program, Construct and Renovate Hospital Facility
PROJECT AMOUNTS: $1,826,000 and $25,191,000
DATES OF APPROVAL: 11/29/83 and 06/05/84

HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH

PROJECTS: Purchase Portsmouth Hospital, Construct a New Facility in Portsmouth, NH
PROJECT AMOUNTS: $6,455,791 and $29,011,051
DATE OF APPROVAL: 06/05/84

SCEVA SPEARE MEMORIAL, PLYMOUTH, NH

PROJECTS: Construct and Renovate Hospital Facilities
PROJECT AMOUNT: $1,353,000
DATE OF APPROVAL: 06/05/84

ELLIOT HOSPITAL, MANCHESTER, NH

PROJECTS: Establish and Operate an Ambulatory Surgical Center
PROJECT AMOUNT: $654,803
DATE OF APPROVAL: 06/05/84

II. HOSPITAL MODERNIZATION PROJECTS UNDER REVIEW

HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH

PROJECT: Construct A Psychiatric Pavilion in Portsmouth
PROJECT AMOUNT: $8,023,754
DATE OF APPROVAL: To Be Decided

SEABORNE HOSPITAL, DOVER, NH

PROJECT: Add 15 Psychiatric Beds to 85 Bed Alcohol/Detox Hospital Presently Under Construction.
PROJECT AMOUNT: $14,460
DATE OF APPROVAL: To Be Decided

FRISBIE MEMORIAL, ROCHESTER, NH

PROJECT: Develop and Operate 2 Occupational Therapy Centers (In Somersworth and Newington)
PROJECT AMOUNT: $743,370
DATE OF APPROVAL: To Be Decided

COTTAGE HOSPITAL, WOODSVILLE, NH

PROJECT: Renovate Hospital and Add 6,336 Sq. Ft. to Facility
PROJECT AMOUNT: $1,500,000
DATE OF APPROVAL: To Be Decided

MARY HITCHCOCK MEMORIAL, HANOVER, NH

PROJECTS: Purchase Or Lease A Mobile Ct Scanner,
Purchase A Digital Subtraction Angiography System
PROJECT AMOUNTS: $1,000,000 and $1,249,650
DATE OF APPROVAL: To Be Decided

LITTLETON HOSPITAL, LITTLETON, NH

PROJECT: Offer Mobile Ct Services
PROJECT AMOUNT: $1,600,000
DATE OF APPROVAL: To Be Decided

* HEALTH AND WELFARE, HEALTH PLANNING AND DEVELOPMENT OFFICE

METHODOLOGY

A. Sample and Survey Response

New Hamshire Hospital employment estimates were based on data furnished by responses to a survey conducted by the New Hampshire Department of Employment Security. The survey covered the payroll period including April 12, 1983. The survey universe was based on the 1982 ES-202 employment listing together with the employment and wage report of the New Hampshire State Hospital.

Usable responses were received from 23 establishments or 77 percent of the 30 hospitals included in the survey. The survey was conducted by mail and consisted of an initial mailing and one follow up. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4-9 would be in one size class and those with employment of 10-19 would be in another size class, etc. One size class in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. Since a universe count of New Hampshire hospitals were included in the sample, the sampling ratio in each size class was one-to-one. Therefore, the sample weight assigned to each establishment in each estimating cell was one. However, if the universe were not taken in the survey sample, the sample weight assigned to some of the smaller establishments would have been a weight other than one. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April 1983. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

APPENDIX

The new OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, governmental or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39000 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathmeticians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49000 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers. Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc.); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. Production, Construction, Operating, Maintenance and Material Handling Occupations

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N.A. Not applicable

AVAILABLE OCCUPATIONAL PROFILES
AS OF APRIL 1985

INDUSTRY	SURVEY YEAR	DATE PUBLISHED
WHOLESALE AND RETAIL TRADE	1982	October 1983
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1982	October 1983
FEDERAL, STATE AND LOCAL GOVERNMENT	1982	October 1983
MANUFACTURING	1980	August 1981
HOSPITALS	1980	March 1981
CONTRACT CONSTRUCTION, FINANCE, INSURANCE AND REAL ESTATE, SERVICES	1981	NONE
WHOLESALE AND RETAIL TRADE	1979	December 1980
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1979	December 1980
FEDERAL, STATE AND LOCAL GOVERNMENT	1979	November 1980
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1978	November 1980
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1978	November 1979
MANUFACTURING	1983	March 1985
HOSPITALS	1983	March 1985

FUTURE PUBLICATIONS	SURVEY YEAR
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1984
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1985
FEDERAL, STATE AND LOCAL GOVERNMENT	1985
WHOLESALE AND RETAIL TRADE	1985
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1985

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People at Work

Occupational Employment Statistics

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

MANUFACTURING OCCUPATIONS 1980

NEW HAMPSHIRE STAFFING PATTERNS
IN
MANUFACTURING
INDUSTRIES
1980

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

AND THE

EMPLOYMENT AND TRAINING ADMINISTRATION

Using A Grant From The

NEW HAMPSHIRE OFFICE OF EMPLOYMENT AND TRAINING

Published August 1981

Wesley S. Noyes, Jr., Supervisor

Arthur P. French, Labor Market Analyst II

PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, Mass. and the national level in Washington, D. C., for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff: Arthur French, James Leatherman and Madaline Shanelaris, with programming and data processing support provided by Geraldine Hudon.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

Department of Employment Security
Occupational Employment Statistics Unit
32 South Main Street
Concord, New Hampshire 03301

Phone (603) 224-3311, Extension 253

INTRODUCTION

The United States Department of Labor initiated the OES program in mid-1971 to meet the increasing demand for current occupational data. The program is based upon the collection of occupational employment data by mail thereby sampling selected sectors of the economy during recurring three year cycles.

Publications of the first survey cycle include: Government (1974-1975); Trade (1976); Manufacturing (1977); Construction, Finance, Insurance and Real Estate, and Services (1978); and Educational Services (1978). Portions of regulated industries were surveyed in 1976 and supplemental staffing pattern reports, by county, were published for all these industries except government and education.

This report is the fifth in the second survey cycle and was compiled from usable returns from the original mailing plus two follow-ups. Others include: Government (1977 and 1979), Regulated Industries (1979), Trade (1979), and Hospitals (1980).

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting occupational employment in the non-farm sector of the economy or any industry subdivision thereof.

The goal of the OES Program is to assist in the development of training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts,economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state, or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

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SUMMARY

OCCUPATIONAL EMPLOYMENT

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

The manufacturing division includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills and characteristically use power driven machines and materials handling equipment. Establishments engaged in assembling component parts of manufactured products are also considered manufacturing if the new product is neither a structure nor other fixed improvement. Also included is the blending of materials such as lubricating oils, plastics, resins, or liquors.

During the occupational survey period of the second quarter of 1980 there were 116,736 wage and salary workers employed in all manufacturing industries in New Hampshire. This represented more than a 17 percent increase (or 17,452 additional jobs) from the previous manufacturing survey conducted in 1977. The largest group of workers (79,963) were engaged in production and production related activities which made up more than 68 percent of the total employment.

Durable goods manufacturing accounted for virtually all of the employment growth in all of the manufacturing industries over the last three years with an increase of 17,710 workers or a growth rate of more than 31 percent. Nondurable goods manufacturing remained about the same, sustaining a very slight lost of less than one percent. The largest numerical increase of workers in a major industry group was 7,699 new workers reported in industry 35 (Machinery, Except Electrical) representing a growth rate of almost 50 percent. This was dominated by an additional 5,230 workers reported in industry subgroup 357 (Office, Computing and Accounting Machines) representing almost a 100 percent growth rate. This was largely due to new and expanding firms engaged in manufacturing electronic computing equipment. The second largest growth rate in a major industry group was experienced in industry 36 (Electrical and Electronic Machinery, Equipment, and Supplies) with 5,031 new workers or a growth rate of over 34 percent. Within this major group, industry 367 (Electronic Components and Accessories) represented the largest growth with 2,568 new workers, or an increase of almost 52 percent from the previous survey three years ago.

Some of the industries, particularly in the nondurable goods sector experienced slight to moderate losses in employment over the last three years. This was especially noted in the Leather and Leather Products manufacturing group (Industry 31) where 1,458 fewer workers were reported. All but 100 of this decrease was in industry 314 (Footwear, Except Rubber). Even though industry 30 (Rubber and Miscellaneous Plastics Products) remained the same in the last three years, industry 302 (Rubber and Plastics Footwear) within this major group sustained a substantial loss of 1,096 workers representing about a 42 percent decrease in employment. Most of the losses in nondurable goods manufacturing were in activities relating to footwear and were due largely to increased foreign shoe imports in recent years. The one major industry group in nondurable goods manufacturing that enjoyed a substantial employment gain during the last three years was industry 27 (Printing, Publishing, and Allied Industries) with 1,403 new workers or a growth rate of 29 percent.

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS (SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
20-39	ALL MANUFACTURING	99,284*	116,736*	17,452	17.6
24,25,32-39	DURABLE GOODS MFG.	56,594*	74,304*	17,710	31.3
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,688	4,645	- 43	- 0.9
242	Sawmills and Planing Mills	1,595	1,711	116	7.3
243	Millwork, Veneer, Plywood, and Structural Wood Members	969	916	- 53	- 5.5
25	FURNITURE AND FIXTURES	1,890	1,881	- 9	- 0.5
251	Household Furniture	1,538	1,463	- 75	- 4.9
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,402	2,939	537	22.4
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,297	1,278	- 19	- 1.5
33	PRIMARY METAL INDUSTRIES	2,515	3,741	1,226	48.7
335	Rolling, Drawing, and Extruding of Nonferrous Metals	576	1,191	615	106.8
336	Nonferrous Foundries (Castings)	687	1,054	367	53.4
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	6,543	7,413	870	13.3
344	Fabricated Structural Metal Products	1,552	2,169	617	39.8
349	Miscellaneous Fabricated Metal Products	1,285	1,419	134	10.4
35	MACHINERY, EXCEPT ELECTRICAL	15,743	23,442	7,699	48.9
353	Construction, Mining, and Materials Handling Machinery and Equipment	893	857	- 38	- 4.2
354	Metalworking Machinery and Equipment	2,465	3,110	645	26.2
355	Special Industry Machinery, Except Metalworking Machinery	3,920	4,112	192	4.9
356	General Industrial Machinery and Equipment	2,464	3,456	992	40.3
357	Office, Computing, and Accounting Machines	5,261	10,491	5,230	99.4
359	Miscellaneous Machinery, Except Electrical	663	1,118	455	68.6

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	14,741	19,772	5,031	34.1
362	Electrical Industrial Apparatus	602	1,010	408	67.8
364	Electric Lighting and Wiring Equipment	2,050	2,936	886	43.2
366	Communication Equipment	5,405	6,401	996	18.4
367	Electronic Components and Accessories	4,963	7,531	2,568	51.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	882	1,151	269	30.5
38	INSTRUMENTS AND RELATED SUPPLIES	6,086	7,668	1,582	26.0
381	Engineering and Scientific Instruments	1,077	1,691	614	57.0
382	Measuring and Controlling Instruments	3,828	4,452	624	16.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	1,483	2,004	521	35.1
399	Miscellaneous Manufacturers	824	973	149	18.1
20-23,26-31	NONDURABLE GOODS MFG.	42,690*	42,432*	- 258	- 0.6
20	FOOD AND KINDRED PRODUCTS	3,247	2,937	- 310	- 9.5
208	Beverages	1,063	1,077	14	0.1
22	TEXTILE MILL PRODUCTS	4,934	4,885	- 49	- 1.0
223	Broad Woven Fabric Mills, Wool	1,262	1,299	37	2.9
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	909	1,062	153	16.8
225	Knitting Mills	877	814	- 63	- 7.2
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	3,041	2,880	- 161	- 5.3
233	WOMEN'S, Misses', and Juniors Outerwear	2,406	1,989	- 417	- 17.3

MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1977 - SECOND QUARTER 1980)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1977 ESTIMATED EMPLOYMENT	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
26	PAPER AND ALLIED PRODUCTS	6,263	6,469	206	3.3
262	Paper Mills, Except Building Paper Mills	3,280	3,228	- 52	- 1.6
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	4,840	6,243	1,403	29.0
271	Newspapers: Publishing, Publishing and Printing	1,503	1,632	129	8.6
275	Commercial Printing	1,872	2,428	556	29.7
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,621	8,623	2	-
302	Rubber and Plastics Footwear	2,614	1,518	-1,096	- 41.9
306	Fabricated Rubber Products Not Elsewhere Classified	704	1,177	473	67.2
307	Miscellaneous Plastics Products	5,303	5,928	625	11.8
31	LEATHER AND LEATHER PRODUCTS	11,001	9,543	-1,458	- 13.3
314	Footwear, Except Rubber	9,382	8,024	-1,358	- 14.5

* Totals include estimates for the entire survey, including industries which have not met publication criteria.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	10000	Managers and Officers	6,941	5.9
2	55U84	Electrical and Electronic Assemblers	6,703	5.7
3	55B29	Supervisors, Nonworking	3,490	3.0
4	55B58	Inspectors	3,257	2.8
5	55C39	Production Packagers, Hand or Machine	2,441	2.1
6	32004	Electrical and Electronic Technicians	2,048	1.8
7	61368	Secretaries	2,019	1.7
8	71000	Sales Representatives, Sales Agents, and/or Sales Associates	1,583	1.4
9	55C76	Sewing Machine Operators, Regular Equipment - - Garment	1,474	1.3
10	61333	General Clerks, Office	1,304	1.1
11	55B86	Maintenance Repairers, General Utility	1,223	1.0
12	55L01	Machine Tool Operators, Combination	1,197	1.0
13	21005	Electrical and Electronic Engineers	1,123	1.0
14	62004	Shipping Packers	1,072	0.9
15	41000	Janitors, Porters, and Cleaners	1,046	0.9
16	62003	Production Clerks and/or Coordinators	1,042	0.9
17	55J63	Grinding and/or Abrading Machine Operators, Metal	1,032	0.9
18	21006	Industrial Engineers	1,029	0.9
19	55Q16	Stitchers, Standard Machine	1,027	0.9
20	62008	Stock Clerks, Stockroom, Warehouse or Storage Yard	1,026	0.9

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		116,736	100.00
MANAGERS AND OFFICERS	10000	6,941	5.94
PROFESSIONAL OCCUPATIONS	20000	8,497	7.28
Chemical Engineers	21003	99	.08
Civil Engineers	21004	13	.01
Electrical and Electronic Engineers	21005	1,123	.96
Industrial Engineers	21006	1,029	.88
Mechanical Engineers	21008	766	.66
Metallurgists and Metallurgical Engineers	21009	11	.01
All Other Engineers	21900	812	.70
Mathematicians	22103	11	.01
All Other Mathematical Scientists	22199	2	*
Chemists	22201	82	.07
Physicists	22205	25	.02
All Other Physical Scientists	22299	1	*
All Life Scientists	22300	11	.01
All Other Natural and Mathematical Scientists	22999	4	*
Systems Analysts, Electronic Data Processing	24000	85	.07
Systems Analysts, Business	24001	96	.08
Photographers	25200	15	.01
Purchasing Agents and/or Buyers	25300	601	.51
Accountants and Auditors	25401	859	.74
Commercial Artists	25426	107	.09
Cost Estimators, Engineering	25427	105	.09
Writers and/or Editors	25436	387	.33
Lawyers	25446	14	.01
Nurses, Professional	25457	68	.06
Personnel and labor Relations Specialists	25465	333	.29
Reporters and Correspondents	25476	183	.16
Designers	25489	220	.19
Estimators, Printing Services	25540	20	.02
Contract Administrators	25551	182	.16
All Other Professional Workers	29000	1,233	1.06
TECHNICAL OCCUPATIONS	30000	4,485	3.84
Computer Programmers	31000	90	.08
Computer Programmers, Business	31001	154	.13

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Computer Programmers, Scientific and Technical	31002	21	.02
Drafters	32003	711	.61
Electrical and Electronic Technicians	32004	2,048	1.75
Radiographers	32009	12	.01
Mechanical Engineering Technicians	32010	239	.20
Tool Programmers, Numerical Control	32011	103	.09
Industrial Engineering Technicians	32019	76	.07
All Other Engineering Technicians	32900	428	.37
Timber Cruisers	33005	12	.01
All Other Science Technicians	33900	156	.13
All Other Technicians	39000	435	.37
SERVICE OCCUPATIONS	40000	1,738	1.49
Janitors, Porters, and Cleaners	41000	1,046	.90
Guards and Doorkeepers	42000	344	.29
Food Service Workers	43000	42	.04
Supervisors, Nonworking--Service Only	44014	165	.14
All Other Service Workers	49000	141	.12
PRODUCTION OCCUPATIONS	50000	79,963	68.50
Mechanics, Automotive	51008	97	.08
Electric Motor Repairers	51020	10	.01
Electrical Instrument Repairers	51023	14	.01
Marine Mechanics and/or Repairers	51042	19	.02
Mechanics, Maintenance	51043	988	.85
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	34	.03
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	.03
Knitting Machine Fixers	51061	34	.03
Loom Fixers	51062	96	.08
Section Repairers and Setters	51065	35	.03
Mechanics, Sewing Machine	51070	36	.03
Data Processing Machine Repairers	51079	30	.03
All Other Mechanics and Repairers	51900	118	.10
Developers and/or Projection Printers	52002	12	.01
Pressers, Hand	53014	42	.04
Pressers, Machine	53015	72	.06

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Truck Drivers	54000	983	.84
Cabinetmakers	55A38	359	.31
Carpenters	55A47	326	.28
Cooks and/or Cookers	55A79	34	.03
Crane, Derrick, and Hoist Operators	55A82	50	.04
Delivery and/or Route Workers	55A87	445	.38
Drawer-in, Hand	55A91	17	.01
Electricians	55B12	495	.42
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	908	.78
Supervisors, Nonworking	55B29	3,490	2.99
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	52	.05
Glaziers	55B48	18	.02
Heavy Equipment Operators	55B52	50	.04
Riggers	55B54	53	.05
Industrial Truck Operators	55B57	785	.67
Inspectors	55B58	3,257	2.79
Instrument Repairers	55B62	46	.04
Instructors, Apparel and Textile Machines	55B65	20	.02
Jewelers and/or Silversmiths	55B66	10	.01
Lens Grinders	55B70	85	.07
Machinists	55B84	988	.85
Maintenance Repairers, General Utility	55B86	1,223	1.05
Helpers, Trades	55B87	453	.39
Metal Fabricators	55B91	141	.12
Mixers	55B93	31	.03
Millwrights	55B95	266	.23
Oilers	55C06	79	.07
Order Fillers	55C08	519	.44
Oven Operators	55C10	17	.01
Painters, Maintenance	55C12	60	.05
Pourers, Metal	55C27	86	.07
Electroplaters	55C29	247	.21
Plumbers and/or Pipefitters	55C30	169	.15
Press Operators and/or Plate Printers	55C36	77	.07
Production Packagers, Hand or Machine	55C39	2,441	2.09
Refractory Materials Repairers	55C46	22	.02
Sandblasters and/or Shotblasters	55C64	81	.07

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Scrappers and/or Strippers, Hand or Machine	55C68	24	.02
Sewing Machine Operators, Regular Equipment -- Garment	55C76	1,474	1.26
Sewing Machine Operators, Special Equipment and/or Automatic Equipment -- Garment	55C77	119	.10
Sewing Machine Operators, Regular Equipment -- Nongarment	55C78	761	.65
Sewing Machine Operators, Special and/or Automatic Equipment -- Nongarment	55C79	192	.17
Sheet Metal Workers	55C81	237	.20
Spooler Operators, Automatic	55C88	15	.01
Stationary Boiler Firers	55C90	91	.08
Stationary Engineers	55C91	70	.06
Structural Steel Workers	55C96	23	.02
Skivers	55D04	92	.08
Tool and Die Makers	55D23	740	.63
Logging Tractor Operators	55D27	101	.09
Welders and/or Flamecutters	55D46	864	.74
Weavers	55D48	371	.32
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	.49
Platemakers	55D57	64	.05
Strippers, Printing and Publishing	55D58	143	.12
Camera Operators, Printing	55D59	116	.10
Opticians, Dispensing and/or Optical Mechanics	55D69	50	.04
Furniture Finishers	55D86	13	.01
Trimmers, Machine	55D94	127	.11
Assemblers for Puller-Over, Hand or Machine	55E25	150	.13
Back Tenders	55E32	128	.11
Baker Helpers	55E37	135	.12
Power Barker Operators	55E38	69	.06
Battery Loaders	55E54	28	.02
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	.03
Beater Engineers	55E61	44	.04
Beaters	55E62	54	.05
Bed Lasters	55E63	53	.05
Blending Machine Operators	55E84	21	.02
Blockmaking Machine Operators	55E86	41	.04

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bobbin Winders, Machine or Sewing Machine	55E90	15	.01
Boners, Meat	55E95	14	.01
Boring Machine Operators, Wood	55E98	57	.05
Bottom Fillers	55F03	67	.06
Braiding Machine Operators	55F09	10	.01
Breakers	55F14	18	.02
Buffers, Hides or Skins	55F23	39	.03
Buffers, Shoe Parts	55F24	112	.10
Bundlers	55F29	47	.04
Burlers	55F30	74	.06
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	192	.17
Casing Finishers and/or Stuffers	55F70	47	.04
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	.03
Cementers, Machine Joiner	55F91	64	.05
Chain Offbearers, Lumber	55F97	163	.14
Chemical Operators A	55G14	29	.02
Chemical Operators B	55G15	21	.02
Perforator Operators	55G16	25	.02
Chemical Operator Helpers	55G17	45	.04
Chippers	55G20	33	.03
Cloth Finishing Range Tenders, Middle	55G33	45	.04
Cloth Finishing Range Operators, Chief	55G34	10	.01
Coater Operators, Off-Machine	55G43	47	.04
Cobblers	55G49	54	.05
Coilers, Winders and/or Spoolers	55G51	19	.02
Combiner Operators	55G56	56	.05
Concrete Stone Fabricators	55G64	11	.01
Coremakers, Hand, Bench and/or Floor	55G85	22	.02
Coremakers, Machine	55G86	124	.11
Creelers, Yarn	55G98	42	.04
Curers, Rubber Goods	55H15	13	.01
Cut-Off Saw Operators	55H19	124	.11
Cutters, Portable Machine	55H25	61	.05
Cutting and Creasing Press Operators	55H28	15	.01
Cylinder Machine Tenders	55H32	52	.05
Dado Operators	55H34	23	.02
Dairy Processing Equipment Operators	55H35	19	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Die Cutter and/or Clicking Machine Operators	55H64	536	.46
Dipping Machine Operators	55H76	81	.07
Doffers	55H79	60	.05
Dowel Machine Operators	55H83	25	.02
Dresser Tenders	55H90	17	.01
Drill-Press and/or Boring Machine Operators	55H95	766	.66
Dye-Range Operators and Spiral Dye-Beck Tenders	55I11	26	.02
Dye-Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	.01
Dye-Tank Tenders, Nets; Warp-Dyeing - Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	.01
Edgers, Automatic and/or Pony	55I18	50	.04
Ending Machine Operators	55I29	40	.03
Envelope Machine Operators	55I34	314	.27
Etchers and/or Engravers	55I35	85	.07
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	.12
Fabricators, Plastics	55I50	103	.09
Fallers and/or Buckers	55I51	129	.11
Finishers, Hand	55I69	314	.27
Flamers	55I82	32	.03
Flavor Room Workers and/or Freezer Operators	55I83	11	.01
Floor Workers, Footwear	55I85	496	.42
Folders, Machine	55I89	29	.02
Folding Machine Operators, Paper	55I93	80	.07
Forming Machine Operators, Glass Container	55I97	13	.01
Fourdrinier Machine Tenders	55J02	60	.05
Fusing Machine Operators	55J20	16	.01
Garment Repairers	55J24	12	.01
Glass Blowers, Glassware and/or Laboratory Apparatus	55J31	11	.01
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	.03
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	.03
Grinding and/or Abrading Machine Operators, Metal	55J63	1,032	.88

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Harness Builders Loom Changers and/or Loom Starters	55J78	19	.02
Head Sawyers	55J83	120	.10
Header Operators	55J84	18	.02
Heat Treaters, Annealers, and/or Temperers	55J85	103	.09
Heel Attachers	55J89	43	.04
Heel Seat Lasters, Machine	55J92	34	.03
Heel Seat Fitters, Machine	55J94	14	.01
Hydraulic Press Operators, Veneer	55K10	26	.02
Inkers, Hand or Machine	55K18	24	.02
Kettle Operators, Adhesive	55K34	19	.02
Kiln Operators	55K41	16	.01
Knitting Machine Operators	55K46	118	.10
Lasters, Hand	55K54	36	.03
Lasting Machine Operators, Hand Method	55K55	43	.04
Lath Operators, Wood	55K57	41	.04
Lath and/or Turning Machine Operators, Metal	55K58	896	.77
Lay-Out Markers, Metal	55K61	70	.06
Tanning Liquor Makers	55K79	11	.01
Loaders, Car and Truck	55K80	59	.05
Log Handling Equipment Operators	55K84	39	.03
Log Inspectors, Graders, and/or Scalers	55K85	59	.05
Lumber Graders	55K90	42	.04
Lumber Straighteners	55K91	48	.04
Envelope Finishing Machine Operators	55K95	17	.01
Machine Setters, Woodworking	55K97	42	.04
Machine Setters, Paper Goods	55K98	43	.04
Machine Tool Operators, Combination	55L01	1,197	1.03
Machine Tool Operators, Numerical Control	55L02	612	.52
Machine Tool Operators, Toolroom	55L03	231	.20
Machine Tool Setters, Metal-working	55L04	594	.51
Meat Grinders	55L16	38	.03
Menders, Cloth	55L18	22	.02
Milling and/or Planing Machine Operators	55L31	419	.36
Rubber Mill Operators	55L33	12	.01

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Wood Machinists	55L34	66	.06
Molders, Bench and/or Floor	55L57	148	.13
Molders, Machine	55L61	160	.14
Molding Machine Operators and/or Pressers	55L63	13	.01
Nailing Machine Operators	55L71	51	.04
Napper Tenders	55L73	26	.02
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	.04
Novelty Workers	55L82	10	.01
Off-Bearers	55L84	126	.11
Paper Reel Operators and/or Rewinder Operators	55L97	34	.03
Patternmakers, Plastics	55M06	17	.01
Patternmakers	55M08	23	.02
Patternmakers, Metal	55M09	26	.02
Patternmakers, Wood	55M10	39	.03
Picker Tenders	55M15	35	.03
Plater Helpers	55M32	215	.18
Power Press Tenders	55M51	16	.01
Power Screwdriver Operators	55M52	64	.05
Press Operators, Meat	55M62	38	.03
Printer Slotter Operators	55M64	37	.03
Puller-Overs	55M70	14	.01
Pulp Refiner Operators	55M73	15	.01
Pulpers	55M74	24	.02
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	.04
Refractory Grinder Operators	55N03	20	.02
Repairers, Finish	55N05	141	.12
Plastics Repairers	55N06	54	.05
Resawyers	55N07	28	.02
Ripsaw Operators	55N15	119	.10
Rough Rounders, Machine	55N37	20	.02
Rubbers	55N39	28	.02
Rubber Goods Cutter-Finishers	55N43	18	.02
Sample Makers	55N51	12	.01
Samplers and/or Test Preparers	55N52	20	.02
Sandblasters, Stone	55N54	11	.01
Sanders, Wood	55N60	231	.20
Saw Filers	55N63	26	.02
Sawyers, Metal	55N64	61	.05
Sawyers, Stone	55N65	47	.04

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Seam Rubbing Machine Operators	55N81	40	.03
Seasoners, Machine	55N84	13	.01
Selectors, Glassware	55N91	75	.06
Shoe Parts Sewers, Hand	55P01	193	.17
Shakeout Workers, Foundry	55P03	85	.07
Shank-Piece Tackers	55P05	27	.02
Shaper and/or Router Operators	55P08	59	.05
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	.02
Shellfish Shuckers	55P15	64	.05
Side Lasters	55P21	54	.05
Slitter - Scorer - Cut - Off Operators	55P47	31	.03
Slitting Machine Operators	55P49	110	.09
Smash Hand	55P54	14	.01
Sole Levelers, Machine	55P61	27	.02
Sorters, Leather	55P63	76	.07
Spinners, Frame	55P74	255	.22
Splitting Machine Feeders	55P78	24	.02
Sprayers, Hand and/or Machine	55P83	44	.04
Spreaders	55P84	40	.03
Stainers	55P90	18	.02
Stakers, Machine	55P91	23	.02
Still Operators, Batch or Continuous	55Q11	12	.01
Stitchers, Special Machine	55Q15	56	.05
Stitchers, Standard Machine	55Q16	1,027	.88
Stitchers, Utility	55Q17	205	.18
Stone Cutters, Hand	55Q20	47	.04
Stone Cutters, Machine	55Q21	17	.01
Stone Polishers	55Q25	17	.01
Stranding Machine Operators	55Q31	27	.02
Strippers, Rubber and Miscellaneous Plastics	55Q35	23	.02
Tackers, Togglers, and Pasters	55Q45	92	.08
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	.03
Taping Machine Operators	55Q51	57	.05
Tenoner Operators	55Q54	24	.02
Testers	55Q57	913	.78
Thermolasting Machine Operators	55Q58	52	.05
Thread Trimmers	55Q62	75	.06
Toe Lasters	55Q76	18	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Trimmers, Plastics	55Q79	51	.04
Treers	55Q84	76	.07
Trim Saw Operators	55Q88	101	.09
Splicers	55Q92	71	.06
Twister Tenders	55R03	40	.03
Variety Saw Operators	55R08	56	.05
Vulcanizers, Footwear	55R16	18	.02
Warp-Tying Machine Tenders	55R24	20	.02
Wax Pattern Workers	55R30	109	.09
Wet Machine Tenders	55R35	18	.02
Winders, Paper Machine	55R37	94	.08
Winder Operators, Automatic	55R38	45	.04
Wire Drawers	55R41	26	.02
Woodworking Machine Operators	55R43	471	.40
Work Distributors	55R46	51	.04
Wrapping Machine Operators	55R48	38	.03
Wringer Machine Operators	55R49	34	.03
Yarn Winders	55R53	49	.04
Press Tenders, Rubber Goods	55R57	93	.08
Press Operators	55R58	158	.14
Painters, Production	55R68	580	.50
Die-Casing Machine Operators, Metal and/or Die-Casting Setters	55R73	18	.02
Wirers, Electronic	55R74	173	.15
Impregnators, Electronic	55R75	17	.01
Riveters, Light	55R77	61	.05
Punch-Press Operators, Metal	55R78	623	.53
Punch-Press Setters, Metal	55R79	96	.08
Shear and/or Slitter Operators, Metal	55R80	52	.05
Shear and/or Slitter Setters	55R81	13	.01
Coil Winders	55R82	678	.58
Coil Tapers, Hand or Machine	55R83	57	.05
Encapsulators	55R84	120	.10
Compression and/or Injection Molding Machine Operators, Plastics	55R85	551	.47
Coil Finishers	55R86	320	.27
Conveyor Operators or Tenders	55R90	133	.11
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	.10
Mixers, Stone, Clay, Glass and Related Products	55S04	12	.01
Core Assemblers, Plasters and/or Finishers	55S09	19	.02

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Dip Platers, Non-Electrolytic	55S15	31	.03
Furnace Operators and/or Cupola Tenders	55S16	62	.05
Cloth Graders	55S21	23	.02
Cutting Machine Operators, Food	55S22	17	.01
Baling Machine Operators	55S25	18	.02
Setters, Plastic Molding Machine	55S28	95	.08
Punch Press Operators, Plastics	55S30	53	.05
Fitters, Structural Metal	55S31	16	.01
Bodymaker Operators, Tin Can	55S33	13	.01
Drier Operators, Chemicals, Plastic Resins, and Rubber	55S38	11	.01
Concrete Vault Makers	55S42	12	.01
Cannery Workers	55S47	13	.01
Furnace Operator Helpers or Heater Helpers	55S51	11	.01
Insulation Wrapping or Braiding Machine Operators	55S52	38	.03
Chief Operators	55S53	72	.06
Waste Treatment Plant Operators, Chemicals	55S54	12	.01
Casket Coverers and/or Casket Liners	55S63	29	.02
Splitters, Machine	55S67	32	.03
Fasteners, Machine	55S68	81	.07
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	.23
Eyelet Machine Operators	55S70	47	.04
Molders, Shoe Parts	55S71	17	.01
Pulling and Lasting Machine Operators	55S73	50	.04
Purification Operators and/or Monomer Purification Operators	55S76	14	.01
Markers	55S77	15	.01
Cutters, Hand	55S78	151	.13
Turners	55S80	22	.02
Folders, Hand	55S81	27	.02
Power Brake and/or Bending Machine Operators, Metal	55S90	151	.13
Planer Operators	55S92	65	.06
Mill and/or Grinder Operators, Minerals	55S98	53	.05
Copy Markers	55T01	10	.01
Hand Compositors	55T03	98	.08

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Imposers and Makeup Arrangers	55T04	24	.02
Line Casting Machine Operators	55T05	23	.02
Line Casting Machine Keyboard Operators	55T06	14	.01
Pasteup Workers	55T11	114	.10
Phototypesetting Machine Keyboard Operators	55T12	40	.03
Phototypesetting Machine Monitors	55T13	32	.03
Phototypesetter Operators	55T14	67	.06
Proofreaders, Composed Copy	55T15	86	.07
Photoengravers	55T18	25	.02
Letter Press Operators, Sheet, Roll or Web Fed	55T23	130	.11
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	.01
Press Assistants and Feeders	55T27	93	.08
Setters, Bindery Machines	55T28	32	.03
Mailers	55T31	165	.14
Equipment Cleaners, Hand	55T62	43	.04
Gluers and/or Cementers, Hand	55T65	106	.09
Cutters, Machine	55T66	361	.31
Drier Operators, Textiles and Rugs	55T69	21	.02
Screen or Stencil Printers and/or Setters	55T70	93	.08
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	.02
Embossing, Stamping, and/or Marking Machine Operators	55T79	200	.17
Bookbinders, Hand	55T80	32	.03
Bookbinders, Machine	55T81	90	.08
Bindery Workers, Assembly	55T82	177	.15
Bindery Workers, Stitching	55T83	24	.02
All Other Bindery Workers	55T84	93	.08
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	.02
Extruder Operators, Plastics or Rubber	55T91	78	.07
Extruder Operator Helpers, Plastics or Rubber	55T92	29	.02
Heat Sealers	55T94	72	.06
Clock, Watch, and Chronometer Assemblers	55U47	95	.08

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Assemblers	55U81	839	.72
Instrument Makers and/or Assemblers	55U82	207	.18
Electro-Mechanical Equipment Assemblers	55U83	888	.76
Electrical and Electronic Assemblers	55U84	6,703	5.74
All Other Assemblers	55U99	3,011	2.58
Decorators, Hand	55V04	45	.04
Beamers, Hand or Machine	55V09	18	.02
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	.01
Batch Plant Operators	57004	42	.04
Tinters	57030	11	.01
Mixers and/or Blenders, Chemicals and Chemical Products	57031	220	.19
Blow-Molding Machine Operators	58002	103	.09
Casters, Plastics	58004	12	.01
Laminators, Preforms	58009	47	.04
Press Operators, Plastics	58010	64	.05
Rotation Molding Machine Operators	58011	37	.03
Vacuum Plastic Forming Machine Operators	58014	22	.02
All Other Skilled Craft and Kindred Workers	59001	1,120	.96
All Other Operatives and Semiskilled Workers	59002	5,560	4.76
All Other Laborers and Unskilled Workers	59003	6,957	5.96
CLERICAL OCCUPATIONS	60000	13,304	11.40
Bookkeeping and/or Billing Machine Operators	61103	77	.07
Computer Operators	61105	248	.21
Keypunch Operators	61107	335	.29
Peripheral EDP Equipment Operators	61109	76	.07
Inserting and/or Labeling Machine Operators	61117	32	.03
All Other Office Machine Operators	61199	136	.12
Stenographers	61200	135	.12
Accounting Clerks	61301	740	.63
Bookkeepers, Hand	61307	495	.42

STAFFING PATTERNS

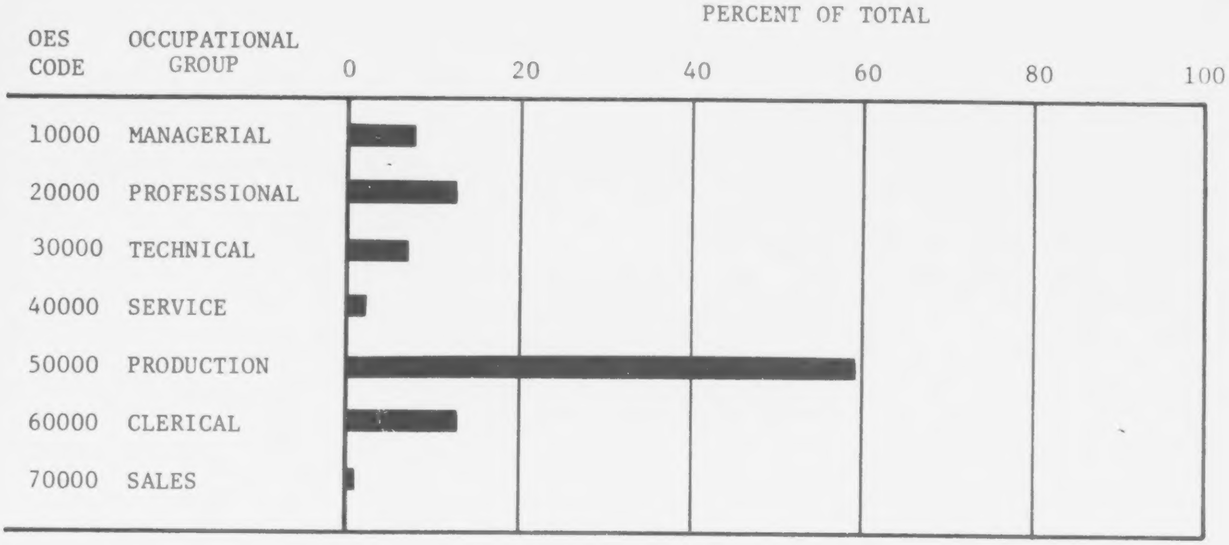
ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
File Clerks	61330	206	.18
General Clerks, Office	61333	1,304	1.12
Order Clerks	61350	435	.37
Payroll and/or Timekeeping Clerks	61351	356	.30
Personnel Clerks	61352	151	.13
Procurement Clerks	61355	231	.19
Receptionists	61361	90	.08
Secretaries	61368	2,019	1.73
Statistical Clerks	61374	68	.06
Switchboard Operators	61376	67	.06
Switchboard Operator/Receptionists	61377	222	.19
Typists	61392	530	.45
Clerical Supervisors, Office or Plant	61396	397	.34
Circulation Clerks	61416	44	.04
Classified-Ad Clerks, Newspaper	61417	17	.01
Customer Service Representatives, Printing and Publishing	61418	34	.03
Telephone Ad-Takers, Newspaper	61419	46	.04
All Other Office Clerical Workers	61900	648	.55
Production Clerks and/or Coordinators	62003	1,042	.89
Shipping Packers	62004	1,072	.92
Shipping and/or Receiving Clerks	62005	735	.63
Weighers, Record Keeping	62007	21	.02
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	1,026	.88
Dispatchers, Vehicle, Service or Work	62018	11	.01
All Other Plant Clerical Workers	62900	258	.22
SALES OCCUPATIONS	70000	1,808	1.55
Sales Representatives, Sales Agents, and/or Sales Associates	71000	1,583	1.36
Sales Clerks	72002	215	.18
All Other Sales Workers	79000	10	.01

* Less than 0.005 percent.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

ALL MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

ALL MANUFACTURING

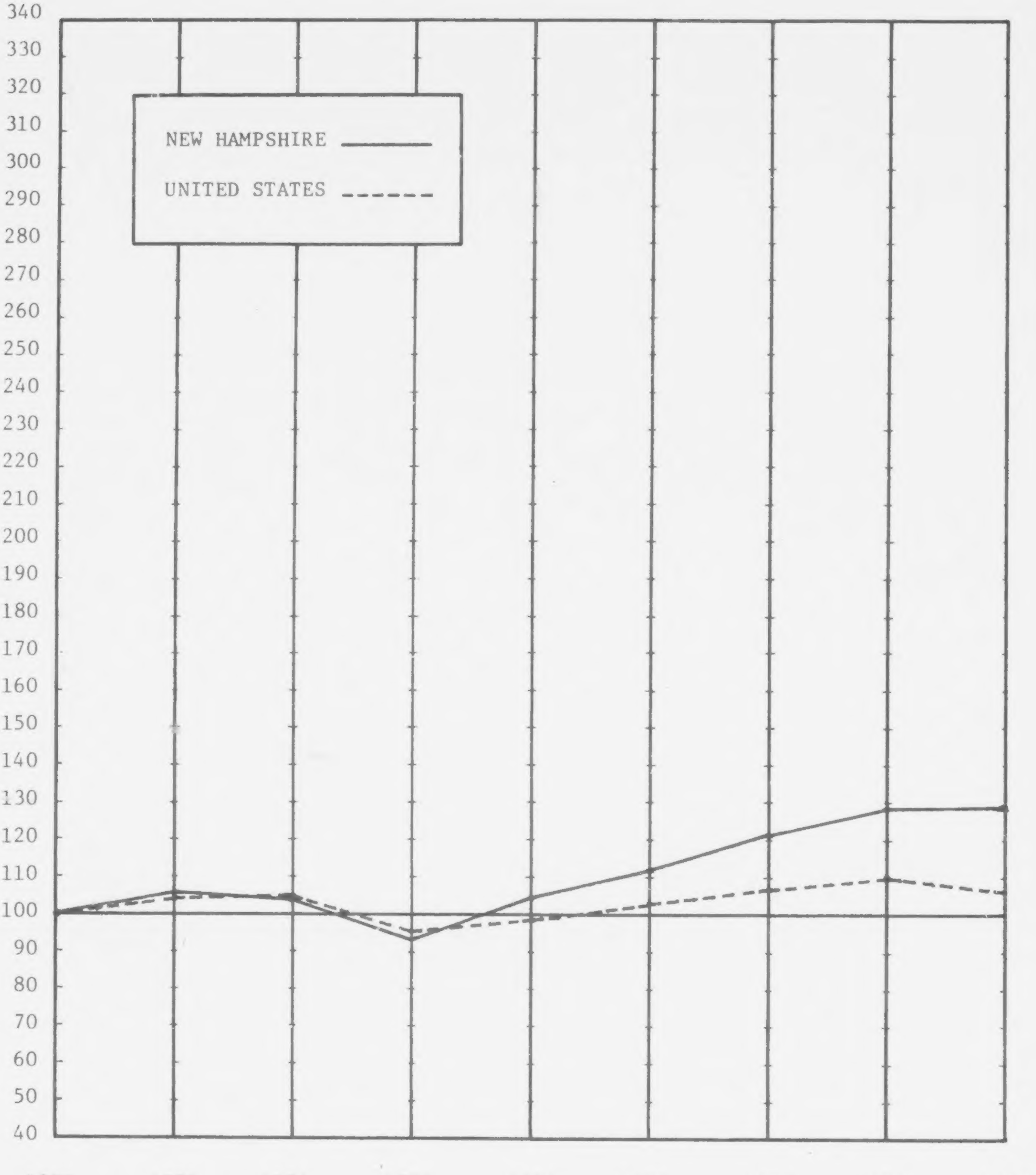
YEAR	NEW HAMPSHIRE		UNITED STATES	
	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	90.8	-	19,151.0	-
1973	96.0	5.7	20,154.0	5.2
1974	94.2	- 1.9	20,077.0	- 0.4
1975	85.1	- 9.7	18,323.0	- 8.7
1976	94.4	10.9	18,997.0	3.7
1977	101.4	7.4	19,682.0	3.6
1978	109.8	8.3	20,505.0	4.2
1979	116.4	6.0	21,062.0	2.7
1980**	116.8	0.3	20,361.0	- 3.3

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

ALL MANUFACTURING



STAFFING PATTERNS - MANUFACTURING INDUSTRIES

BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1980 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000	PROFESSIONAL 20000	TECHNICAL 30000	SERVICE 40000	OPERATING MAINTENANCE 50000	CLERICAL 60000	SALES 70000
20-39	TOTAL ALL MANUFACTURING	116,736	5.9	7.3	3.8	1.5	68.5	11.4	1.6
24,25, 32-39	DURABLE GOODS MANUFACTURING	74,304	6.7	9.5	5.5	1.4	63.5	12.2	1.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,645	7.8	1.3	0.5	1.7	78.5	8.4	1.8
242	Sawmills and Planing Mills	1,711	8.1	1.6	0.3	1.0	80.0	7.9	1.1
243	Millwork, Veneer, Plywood, and Structural Wood Members	916	5.6	1.2	-	1.1	79.0	8.6	4.5
25	FURNITURE AND FIXTURES	1,881	4.0	3.0	1.0	1.2	74.8	13.2	2.8
251	Household Furniture	1,463	3.3	3.1	0.6	1.3	75.4	13.1	3.2
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,939	6.5	3.1	2.4	2.3	75.7	7.9	2.1
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,278	3.4	4.3	4.7	2.8	74.6	6.9	3.3
33	PRIMARY METAL INDUSTRIES	3,741	5.5	4.0	2.3	0.8	80.5	6.3	0.6
335	Rolling, Drawing, and Extruding Of Nonferrous Metals	1,191	5.5	7.0	4.7	0.8	74.9	6.0	1.1
336	Nonferrous Foundries (Castings)	1,054	4.5	2.6	1.0	1.0	83.2	6.8	0.9
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	7,413	4.6	4.6	1.2	1.4	78.0	9.3	0.9
344	Fabricated Structural Metal Products	2,169	5.3	9.8	2.0	1.1	72.3	8.8	0.7
349	Miscellaneous Fabricated Metal Products	1,419	4.0	4.5	0.8	0.9	76.5	12.8	0.5

35	MACHINERY, EXCEPT ELECTRICAL	23,442	7.8	13.8	8.5	1.3	52.0	15.5	1.1
353	Construction, Mining, and Materials Handling Machinery and Equipment	857	3.7	7.0	7.7	0.5	65.6	15.0	0.5
354	Metalworking Machinery and Equipment	3,110	7.5	9.7	5.8	1.7	59.6	13.4	2.3
355	Special Industry Machinery, Except Metalworking Machinery	4,112	5.0	10.7	5.0	0.8	65.4	12.1	1.0
356	General Industrial Machinery and Equipment	3,456	7.6	6.7	3.1	2.0	67.9	11.5	1.2
357	Office, Computing, and Accounting Machines	10,491	9.3	20.5	13.4	1.2	35.0	19.7	0.9
359	Miscellaneous Machinery, Except Electrical	1,118	8.6	2.2	1.1	1.1	77.8	8.4	0.8
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES	19,772	7.1	12.2	6.7	1.6	59.3	12.3	0.8
362	Electrical Industrial Apparatus	1,010	3.1	4.2	1.7	2.1	78.6	9.7	0.6
364	Electric Lighting and Wiring Equipment	2,936	3.1	6.4	2.7	0.9	75.9	10.7	0.3
366	Communication Equipment	6,401	13.3	27.1	12.2	2.3	27.1	17.3	0.7
367	Electronic Components and Accessories	7,531	3.9	5.0	5.3	1.5	73.3	10.1	0.9
369	Miscellaneous Electrical Machinery, Equipment and Supplies	1,151	7.2	3.5	2.0	0.4	79.3	6.1	1.5
38	INSTRUMENTS AND RELATED SUPPLIES	7,668	5.4	7.6	5.9	1.2	67.2	11.4	1.3
381	Engineering and Scientific Instruments	1,691	11.3	13.3	11.3	1.6	41.4	20.4	0.7
382	Measuring and Controlling Instruments	4,452	2.5	6.5	4.9	1.1	75.1	8.6	1.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	2,004	5.7	3.6	1.4	1.5	71.4	12.5	3.9
399	Miscellaneous Manufactures	973	6.1	5.5	2.8	1.2	72.5	10.9	1.0
20-23, 26-31	NONDURABLE GOODS MANUFACTURING	42,432	4.7	3.4	0.9	1.6	77.2	10.1	2.1
20	FOOD AND KINDRED PRODUCTS	2,937	6.6	1.6	0.4	0.9	76.9	10.3	3.3
208	Beverages	1,077	6.2	1.1	0.3	1.0	79.2	8.6	3.6

22	TEXTILE MILL PRODUCTS	4,885	4.2	1.4	0.6	2.8	81.7	8.9	0.4
223	Broad Woven Fabric Mills, Wool	1,299	2.1	1.2	0.5	0.4	91.7	4.0	0.1
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	1,062	4.9	1.9	0.5	1.9	80.1	10.7	-
225	Knitting Mills	814	4.2	1.6	0.2	8.4	71.6	13.9	0.1
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,880	5.0	1.4	0.3	1.4	79.8	10.6	1.5
233	Women's, Misses' and Juniors Outerwear	1,989	5.0	1.4	0.3	1.7	81.0	9.6	1.0
26	PAPER AND ALLIED PRODUCTS	6,469	2.8	3.0	1.2	2.3	81.9	7.5	1.3
262	Paper Mills, Except Building Paper Mills	3,228	1.8	3.3	2.1	2.2	81.7	7.9	1.0
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,243	9.4	7.7	1.2	2.0	58.2	16.7	4.8
271	Newspapers: Publishing, Publishing and Printing	1,632	12.0	19.3	1.5	0.8	38.7	19.0	8.7
275	Commercial Printing	2,428	7.5	1.4	1.0	3.1	73.4	11.8	1.8
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,623	3.7	4.4	1.2	1.3	78.1	8.3	3.0
302	Rubber and Plastics Footwear	1,518	3.9	2.1	0.2	0.6	82.1	9.9	1.2
306	Fabricated Rubber Products Not Elsewhere Classified	1,177	5.3	3.0	0.8	0.8	72.6	9.9	7.6
307	Miscellaneous Plastics Products	5,928	3.4	5.3	1.5	1.5	78.2	7.6	2.5
31	LEATHER AND LEATHER PRODUCTS	9,543	2.5	1.6	0.8	1.0	84.0	9.1	1.0
314	Footwear, Except Rubber	8,024	2.2	1.5	0.8	1.0	84.3	9.3	0.9

SUMMARY

OCCUPATIONAL EMPLOYMENT

DURABLE GOODS MANUFACTURING

(SIC 24,25, 32-39)

There were 74,304 wage and salary workers employed in the durable goods manufacturing sector during the occupational survey period of the second quarter of 1980. The largest major occupational group was the production and production related jobs with 47,206 workers representing almost 64 percent of the total employment. This was followed by the clerical group with 9,032 workers, or over 12 percent, and the professional group with 7,077 workers, or more than nine percent of the total employment in the durable goods sector.

The occupation employing the largest number of workers was the electrical and electronic assemblers with 6,703 employees or more than nine percent of the total followed by managers and officers with 4,961 employees (nearly seven percent), and inspectors with 2,374 workers or over three percent of the total employment in durable goods manufacturing.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	55U84	Electrical and Electronic Assemblers	6,703	9.0
2	10000	Managers and Officers	4,961	6.7
3	55B58	Inspectors	2,374	3.2
4	55B29	Supervisors, Nonworking	2,215	3.0
5	32004	Electrical and Electronic Technicians	2,038	2.7
6	61368	Secretaries	1,639	2.2
7	55L01	Machine Tool Operators, Combination	1,197	1.6
8	21005	Electrical and Electronic Engineers	1,090	1.5
9	55J63	Grinding and/or Abrading Machine Operators, Metal	1,032	1.4
10	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	908	1.2
11	55K58	Lathe and/or Turning Machine Operators, Metal	896	1.2
12	55U83	Electro-Mechanical Equipment Assemblers	888	1.2
13	62003	Production Clerks and/or Coordinators	859	1.2
14	21006	Industrial Engineers	852	1.1
15	55U81	Machine Assemblers	839	1.1
16	62008	Stock Clerks, Stockroom, Warehouse or Storage Yard	812	1.1
17	55D46	Welders and/or Flamecutters	800	1.1
18	61333	General Clerks, Office	791	1.1
19	71000	Sales Representatives, Sales Agents, and/or Sales Associates	779	1.0
20	55H95	Drill-Press and/or Boring Machine Operators	766	1.0

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		74,304	100.00
MANAGERS AND OFFICERS	10000	4,961	6.68
PROFESSIONAL OCCUPATIONS	20000	7,077	9.52
Chemical Engineers	21003	63	.08
Civil Engineers	21004	13	.02
Electrical and Electronic Engineers	21005	1,090	1.47
Industrial Engineers	21006	852	1.15
Mechanical Engineers	21008	666	.90
Metallurgists and Metallurgical Engineers	21009	11	.01
All Other Engineers	21900	715	.96
Mathematicians	22103	11	.01
All Other Mathematical Scientists	22199	1	*
Chemists	22201	38	.05
Physicists	22205	25	.03
All Other Physical Scientists	22299	1	*
All Life Scientists	22300	2	*
All Other Natural and Mathematical Scientists	22999	4	.01
Systems Analysts, Electronic Data Processing	24000	47	.06
Systems Analysts, Business	24001	96	.13
Purchasing Agents and/or Buyers	25300	476	.64
Accountants and Auditors	25401	702	.95
Commercial Artists	25426	67	.09
Cost Estimators, Engineering	25427	105	.14
Writers and/or Editors	25436	240	.32
Lawyers	25446	14	.02
Nurses, Professional	25457	51	.07
Personnel and Labor Relations Specialists	25465	269	.36
Designers	25489	134	.18
Contract Administrators	25551	182	.25
All Other Professional Workers	29000	1,202	1.62
TECHNICAL OCCUPATIONS	30000	4,089	5.50
Computer Programmers	31000	30	.04
Computer Programmers, Business	31001	154	.21

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Computer Programmers, Scientific and Technical	31002	21	.03
Drafters	32003	633	.85
Electrical and Electronic Technicians	32004	2,038	2.74
Radiographers	32009	12	.02
Mechanical Engineering Technicians	32010	239	.32
Tool Programmers, Numerical Control	32011	103	.14
Industrial Engineering Technicians	32019	66	.09
All Other Engineering Technicians	32900	331	.44
Timber Cruisers	33005	12	.02
All Other Science Technicians	33900	106	.14
All Other Technicians	39000	344	.46
SERVICE OCCUPATIONS	40000	1,046	1.41
Janitors, Porters, and Cleaners	41000	668	.90
Guards and Doorkeepers	42000	240	.33
Food Service Workers	43000	23	.03
Supervisors, Nonworking--Service Only	44014	98	.13
All Other Service Workers	49000	17	.02
PRODUCTION OCCUPATIONS	50000	47,206	63.53
Mechanics, Automotive	51008	54	.07
Electric Motor Repairers	51020	10	.01
Electrical Instrument Repairers	51023	14	.02
Marine Mechanics and/or Repairers	51042	19	.03
Mechanics, Maintenance	51043	594	.80
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	24	.03
Data Processing Machine Repairers	51079	30	.04
All Other Mechanics and Repairers	51900	47	.06
Truck Drivers	54000	630	.85
Cabinetmakers	55A38	359	.48
Carpenters	55A47	276	.37
Crane, Derrick, and Hoist Operators	55A82	37	.05
Delivery and/or Route Workers	55A87	79	.11
Electricians	55B12	310	.42
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	908	1.22
Supervisors, Nonworking	55B29	2,215	2.98

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	52	.07
Glaziers	55B48	18	.02
Heavy Equipment Operators	55B52	43	.06
Riggers	55B54	34	.05
Industrial Truck Operators	55B57	418	.56
Inspectors	55B58	2,374	3.19
Instrument Repairers	55B62	12	.02
Jewelers and/or Silversmiths	55B66	10	.01
Lens Grinders	55B70	85	.11
Machinists	55B84	701	.94
Maintenance Repairers, General Utility	55B86	556	.75
Helpers, Trades	55B87	278	.37
Metal Fabricators	55B91	141	.19
Millwrights	55B95	105	.14
Oilers	55C06	26	.04
Order Fillers	55C08	188	.25
Painters, Maintenance	55C12	27	.04
Pourers, Metal	55C27	86	.12
Electroplaters	55C29	247	.33
Plumbers and/or Pipefitters	55C30	77	.10
Press Operators and/or Plate Printers	55C36	14	.02
Production Packagers, Hand or Machine	55C39	658	.89
Refractory Materials Repairers	55C46	22	.03
Sandblasters and/or Shotblasters	55C64	81	.11
Sewing Machine Operators, Regular Equipment--Garment	55C76	92	.12
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	206	.28
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	12	.02
Sheet Metal Workers	55C81	204	.27
Stationary Boiler Firers	55C90	38	.05
Structural Steel Workers	55C96	23	.03
Tool and Die Makers	55D23	657	.88
Logging Tractor Operators	55D27	101	.14
Welders and/or Flamecutters	55D46	800	1.08
Weavers	55D48	22	.03
Opticians, Dispensing and/or Optical Mechanics	55D69	50	.07

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Furniture Finishers	55D86	13	.02
Power Barker Operators	55E38	69	.09
Blockmaking Machine Operators	55E86	41	.06
Boring Machine Operators, Wood	55E98	57	.08
Braiding Machine Operators	55F09	10	.01
Breakers	55F14	18	.02
Chain Offbearers, Lumber	55F97	163	.22
Chippers	55G20	26	.04
Coilers, Winders and/or Spoolers	55G51	19	.03
Concrete Stone Fabricators	55G64	11	.01
Coremakers, Hand, Bench and/or Floor	55G85	22	.03
Coremakers, Machine	55G86	124	.17
Cut-Off Saw Operators	55H19	124	.17
Dado Operators	55H34	23	.03
Dowel Machine Operators	55H83	25	.03
Drill-Press and/or Boring Machine Operators	55H95	766	1.03
Edgers, Automatic and/or Pony	55I18	50	.07
Etchers and/or Engravers	55I35	85	.11
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	.19
Fallers and/or Buckers	55I51	129	.17
Forming Machine Operators, Glass Container	55I97	13	.02
Glass Blowers, Glassware and/or Laboratory Apparatus	55J31	11	.01
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	.05
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	.04
Grinding and/or Abrading Machine Operators, Metal	55J63	1,032	1.39
Head Sawyers	55J83	120	.16
Hender Operators	55J84	18	.02
Heat Treaters, Annealers, and/or Temperers	55J85	103	.14
Hydrolic Press Operators, Veneer	55K10	26	.04
Kiln Operators	55K41	16	.02
Lathe Operators, Wood	55K57	41	.06
Lathe and/or Turning Machine Operators, Metal	55K58	896	1.21
Lay-Out Markers, Metal	55K61	70	.09

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Loaders, Car and Truck	55K80	59	.08
Log Handling Equipment Operators	55K84	39	.05
Log Inspectors, Graders, and/or Scalers	55K85	54	.07
Lumber Graders	55K90	42	.06
Lumber Straighteners	55K91	48	.06
Machine Setters, Wood working	55K97	42	.06
Machine Tool Operators, Combination	55L01	1,197	1.61
Machine Tool Operators, Numerical Control	55L02	612	.82
Machine Tool Operators, Toolroom	55L03	231	.31
Machine Tool Setters, Metal working	55L04	594	.80
Milling and/or Planing Machine Operators	55L31	419	.56
Wood Machinists	55L34	66	.09
Molders, Bench and/or Floor	55L57	148	.20
Molders, Machine	55L61	160	.21
Molding Machine Operators and/or Pressers	55L63	13	.02
Nailing Machine Operators	55L71	51	.07
Off-Bearers	55L84	126	.17
Patternmakers, Metal	55M09	26	.04
Patternmakers, Wood	55M10	39	.05
Plater Helpers	55M32	215	.29
Power Press Tenders	55M51	16	.02
Power Screwdriver Operators	55M52	64	.09
Refractory Grinder Operators	55N03	20	.03
Resawyers	55N07	28	.04
Ripsaw Operators	55N15	119	.16
Rubbers	55N39	28	.04
Samplers and/or Test Preparers	55N52	20	.03
Sandblasters, Stone	55N54	11	.01
Sanders, Wood	55N60	231	.31
Saw Filers	55N63	26	.04
Sawyers, Metal	55N64	61	.08
Sawyers, Stone	55N65	47	.06
Selectors, Glassware	55N91	75	.10
Shakeout Workers, Foundry	55P03	85	.11
Shaper and/or Route Operators	55P08	59	.08
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	.04

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Spinners, Frame	55P74	17	.02
Stone Cutters, Hand	55Q20	47	.06
Stone Cutters, Machine	55Q21	17	.02
Stone Polishers	55Q25	17	.02
Stranding Machine Operators	55Q31	27	.04
Tenoner	55Q54	24	.03
Testers	55Q57	758	1.02
Trim Saw Operators	55Q88	101	.14
Variety Saw Operators	55R08	56	.08
Wax Pattern Workers	55R30	109	.15
Wire Drawers	55R41	26	.04
Woodworking Machine Operators	55R43	471	.63
Press Operators	55R58	158	.21
Painters, Production	55R68	426	.57
Die-Casting Machine Operators, Metal and/or Die Casting Setters	55R73	18	.02
Wirers, Electronic	55R74	173	.23
Impregnators, Electronic	55R75	17	.02
Riveters, Light	55R77	23	.03
Punch-Press Operators, Metal	55R78	623	.84
Punch-Press Setters, Metal	55R79	96	.13
Shear and/or Slitter Operators, Metal	55R80	52	.07
Shear and/or Slitter Setters	55R81	13	.02
Coil Winders	55R82	678	.91
Coil Tapers, Hand or Machine	55R83	57	.08
Encapsulators	55R84	120	.16
Compression and/or Injection Molding Machine Operators, Plastics	55R85	190	.26
Coil Finishers	55R86	320	.43
Conveyor Operators or Tenders	55R90	52	.07
Mixers, Stone, Clay, Glass and Related Products	55S04	12	.02
Core Assemblers, Pasters and/or Finishers	55S09	19	.03
Dip Platers, Non-Electrolytic	55S15	31	.04
Furnace Operators and/or Cupola Tenders	55S16	62	.08
Fitters, Structural Metal	55S31	16	.02
Bodymaker Operators, Tin Can	55S33	13	.02
Concrete Vault Makers	55S42	12	.02
Furnace Operator Helpers or Heater Helpers	55S51	11	.01

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Insulation Wrapping or Braiding Machine Operators	55S52	38	.05
Casket Coverers and/or Casket Liners	55S63	29	.04
Power Brake and/or Bending Machine Operators, Metal	55S90	151	.20
Planer Operators	55S92	65	.09
Mill and/or Grinder Operators, Minerals	55S98	53	.07
Gluers and/or Cementers, Hand	55T65	12	.02
Screen and/or Stencil Printers and/or Setters	55T70	76	.10
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	.03
Clock, Watch, and Chronometer Assemblers	55U47	95	.13
Machine Assemblers	55U81	839	1.13
Instrument Makers and/or Assemblers	55U82	207	.28
Electro-Mechanical Equipment Assemblers	55U83	888	1.20
Electrical and Electronic Assemblers	55U84	6,703	9.02
All Other Assemblers	55U99	2,245	3.02
Decorators, Hand	55V04	45	.06
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	.02
Batch Plant Operators	57004	42	.06
Mixers and/or Blenders, Chemicals and Chemical Products	57031	36	.05
Laminators, Preforms	58009	47	.06
All Other Skilled Craft and Kindred Workers	59001	671	.90
All Other Operatives and Semiskilled Workers	59002	3,544	4.77
All Other Laborers and Unskilled Workers	59003	3,029	4.08
CLERICAL OCCUPATIONS	60000	9,032	12.16
Bookkeeping and/or Billing Machine Operators	61103	36	.05
Computer Operators	61105	186	.25
Keypunch Operators	61107	229	.31

STAFFING PATTERNS

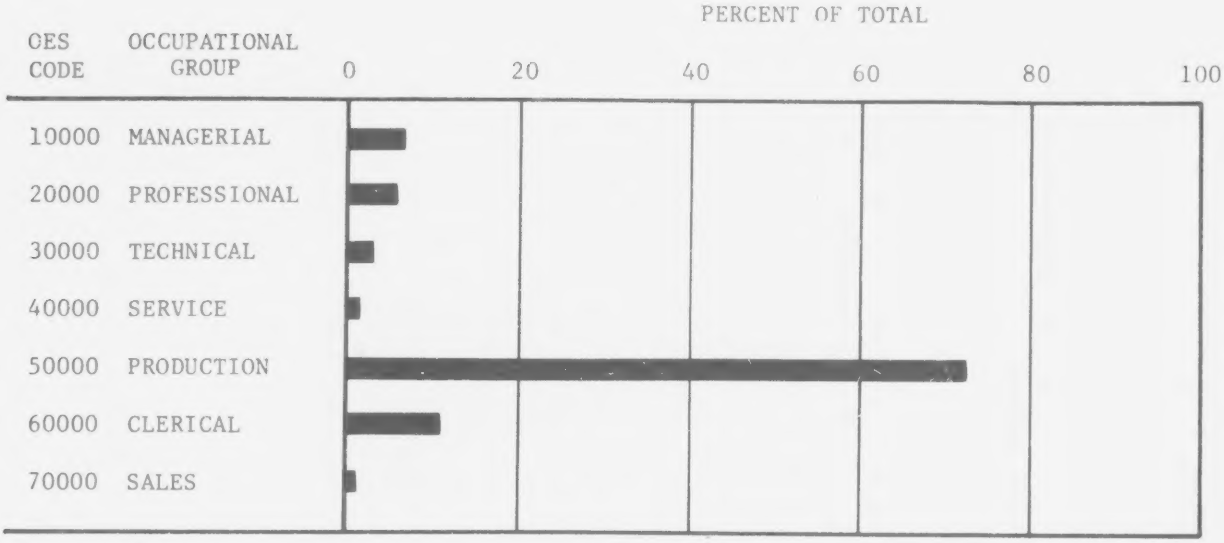
DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Peripheral EDP Equipment Operators	61109	71	.10
All Other Office Machine Operators	61199	107	.14
Stenographers	61200	108	.14
Accounting Clerks	61301	512	.69
Bookkeepers, Hand	61307	293	.39
File Clerks	61330	167	.22
General Clerks, Office	61333	791	1.06
Order Clerks	61350	273	.37
Payroll and/or Timekeeping Clerks	61351	161	.22
Personnel Clerks	61352	109	.15
Procurement Clerks	61355	194	.26
Receptionists	61361	58	.08
Secretaries	61368	1,639	2.21
Statistical Clerks	61374	53	.07
Switchboard Operators	61376	46	.06
Switchboard Operator/Receptionists	61377	140	.19
Typists	61392	339	.46
Clerical Supervisors, Office or Plant	61396	175	.24
All Other Office Clerical Workers	61900	534	.72
Production Clerks and/or Coordinators	62003	859	1.16
Shipping Packers	62004	586	.79
Shipping and/or Receiving Clerks	62005	396	.53
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	812	1.09
Dispatchers, Vehicle, Service or Work	62018	11	.01
All Other Plant Clerical Workers	62900	147	.20
SALES OCCUPATIONS	70000	893	1.20
Sales Representatives, Sales Agents and/or Sales Associates	71000	779	1.05
Sales Clerks	72002	114	.15

* Less than 0.005 percent.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

DURABLE GOODS MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

DURABLE GOODS MANUFACTURING

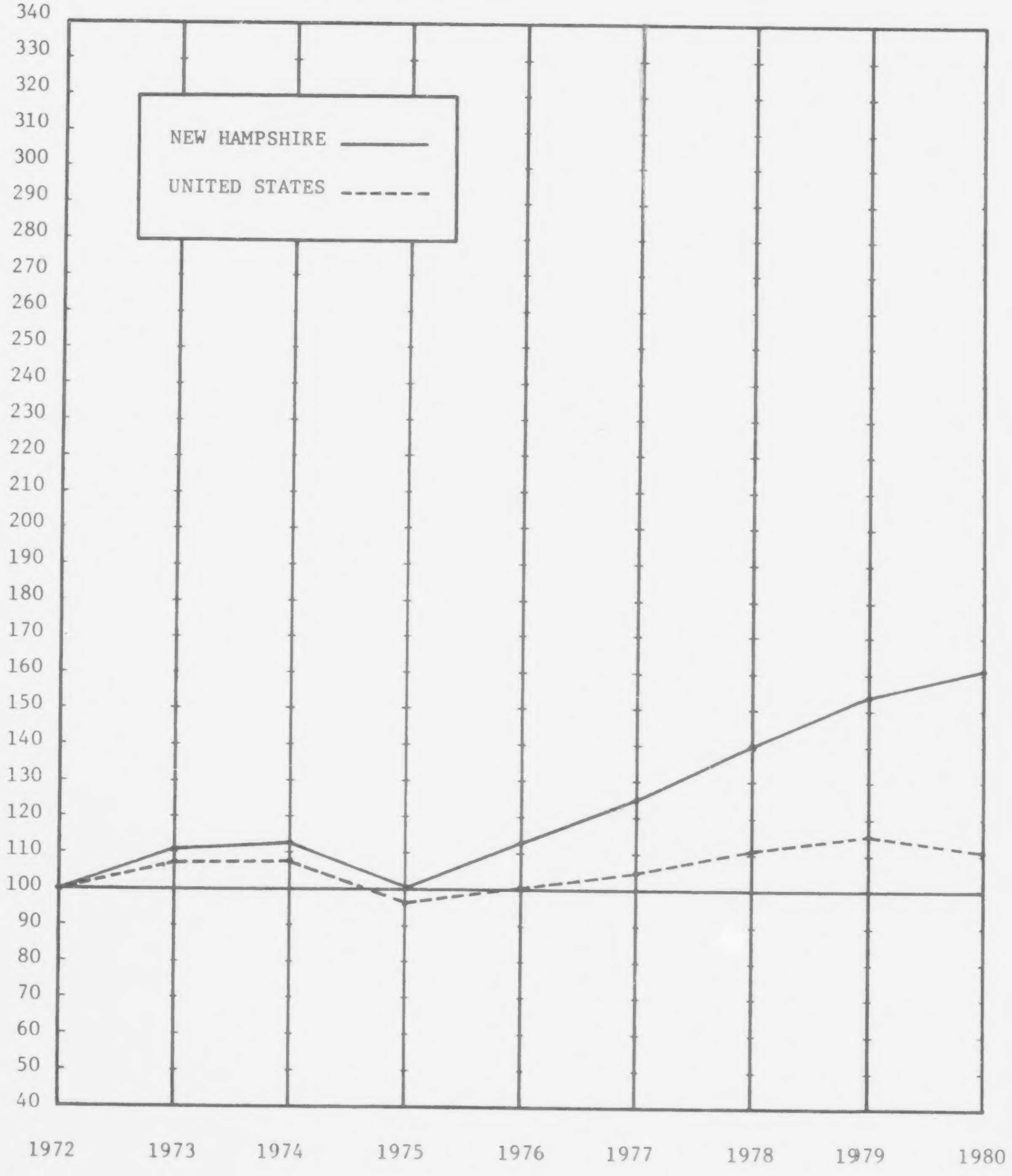
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	46.0	-	11,049.0	-
1973	51.0	10.9	11,891.0	7.6
1974	51.8	1.6	11,925.0	0.3
1975	46.7	- 9.8	10,688.0	- 10.4
1976	52.1	11.6	11,077.0	3.6
1977	57.6	10.6	11,597.0	4.7
1978	64.4	11.8	12,274.0	5.8
1979	71.0	10.2	12,772.0	4.1
1980**	74.1	4.4	12,215.0	- 4.4

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

DURABLE GOODS MANUFACTURING



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE
(SIC 24)

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. This group does not include establishments producing furniture, musical instruments, toys, caskets, and playground equipment.

There were 4,645 wage and salary workers in this industry during the survey month of May 1980, a decrease of 43 workers from the previous survey in 1977. Numbering 3,648 employees or more than 78 percent of all employment, production related occupations lost 156 workers over the three years between surveys. The major part of the reduction was due to a loss of 46 carpenters. Managers and officers gained 61 positions for a 20 percent increase - the largest numerical increase and the second largest in percentage of increase.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	360
2	55U00	Assemblers	312
3	54000	Truck Drivers	184
4	55R43	Woodworking Machine Operators	164
5	55F97	Chain Offbearers, Lumber	163
6	55A47	Carpenters	156
7	55A38	Cabinetmakers	132
8	55I51	Fallers and/or Buckers	129
9	55J83	Head Sawyers	120
10	55D27	Logging Tractor Operators	101
	55Q88	Trim Saw Operators	101

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	72.7
2	55J83	Head Sawyers	43.9
3	54000	Truck Drivers	41.0
4	61307	Bookkeepers, Hand	33.1
5	55E38	Power Barker Operators	30.2

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		4,645	100.0				
MANAGERS AND OFFICERS	10000	360	7.8	4	374	346	72.7
PROFESSIONAL OCCUPATIONS	20000	60	1.3				
All Engineers	21000	6	0.1	NA	–	–	NA
All Natural and Mathematical Scientists	22000	2	*	NA	–	–	NA
Purchasing Agents and/or Buyers	25300	15	0.4	15	17	13	7.2
Accountants and Auditors	25401	33	0.7	18	39	27	14.4
All Other Professional Workers	29000	4	0.1	NA	–	–	NA
TECHNICAL OCCUPATIONS	30000	21	0.5				
All Engineering Technicians	32000	9	0.2	NA	–	–	NA
Timber Cruisers	33005	12	0.3	23	15	9	4.3
SERVICE OCCUPATIONS	40000	81	1.7				
Janitors, Porters, and Cleaners	41000	46	1.0	8	50	42	17.3
Guards and Doorkeepers	42000	30	0.6	17	35	25	7.9
All Food Service Workers	43000	1	*	NA	–	–	NA
All Other Service Workers	49000	4	0.1	NA	–	–	NA
PRODUCTION OCCUPATIONS	50000	3,648	78.5				
Mechanics, Automotive	51008	10	0.2	46	15	5	1.4
Mechanics, Maintenance	51043	53	1.1	9	58	48	17.3
All Other Mechanics and Repairers	51900	3	0.1	NA	–	–	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Truck Drivers	54000	184	4.0	7	197	171	41.0
Cabinet makers	55A38	132	2.8	14	150	114	5.8
Carpenters	55A47	156	3.4	6	165	147	12.2
Delivery and/or Route Workers	55A87	29	0.6	15	33	25	5.0
Electricians	55B12	20	0.4	10	22	18	3.6
Supervisors, Nonworking	55B29	94	2.0	7	101	87	20.1
Glaziers	55B48	18	0.4	36	24	12	2.2
Heavy Equipment Operators	55B52	26	0.5	43	37	15	2.9
Industrial Truck Operators	55B57	96	2.1	5	101	91	28.8
Inspectors	55B58	22	0.5	13	25	19	7.2
Maintenance Repairers, General Utility	55B86	86	1.9	5	90	82	22.3
Helpers, Trades	55B87	68	1.5	19	81	55	12.9
Production Packagers, Hand or Machine	55C39	31	0.7	12	35	27	7.2
Logging Tractor Operators	55D27	101	2.2	19	120	82	20.1
Power Barker Operators	55E38	69	1.5	5	72	66	30.2
Boring Machine Operators, Wood	55E98	25	0.5	7	27	23	2.9
Chain Offbearers, Lumber	55F97	163	3.5	11	181	145	24.5
Chippers	55G20	26	0.5	12	29	23	10.1
Cut-Off Saw Operators, Lumber	55H19	85	1.8	11	94	76	23.0
Dado Operators	55H34	19	0.4	2	19	19	2.2
Dowel Machine Operators	55H83	23	0.5	0	23	23	0.7
Edgers, Automatic and/or Pony	55I18	50	1.1	7	54	46	24.5
Fallers and/or Buckers	55I51	129	2.8	13	146	112	21.6
Head Sawyers	55J83	120	2.6	4	125	115	43.9
Hydraulic Press Operators, Veneer	55K10	26	0.5	0	26	26	0.7
Kiln Operators, Lumber	55K41	16	0.4	20	19	13	4.3
Lathe Operators, Wood	55K57	30	0.6	0	30	30	0.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Loaders, Car and Truck	55K80	59	1.3	10	65	53	15.8
Log Handling Equipment Operators	55K84	39	0.8	12	44	34	13.7
Log Inspectors, Graders, and/or Scalers	55K85	54	1.2	7	58	50	24.5
Lumber Graders	55K90	42	0.9	9	46	38	15.8
Lumber Straighteners	55K91	48	1.0	14	55	41	10.1
Machine Setters, Woodworking	55K97	20	0.4	16	23	17	6.5
Wood Machinists	55L34	52	1.1	14	59	45	9.4
Nailing Machine Operators	55L71	50	1.1	12	56	44	10.1
Off-Bearers	55L84	45	1.0	10	50	40	8.6
Resawyers	55N07	28	0.6	12	31	25	10.8
Ripsaw Operators	55N15	57	1.2	10	63	51	18.7
Sanders, Wood	55N60	63	1.4	8	68	58	12.9
Saw Filers	55N63	26	0.5	11	29	23	12.2
Shaper and/or Router Operators	55P08	31	0.7	18	37	25	3.6
Trim Saw Operators	55Q88	101	2.2	5	106	96	28.1
Variety Saw Operators	55R08	36	0.8	14	41	31	8.6
Woodworking Machine Operators	55R43	164	3.5	7	175	153	20.1
Painters, Production	55R68	64	1.4	8	69	59	12.9
Planer Operators	55S92	65	1.4	7	70	60	21.6
Assemblers	55U00	312	6.7	8	337	287	18.0
All Other Skilled Craft and Kindred Workers	59001	31	0.7	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	122	2.6	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	229	4.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	391	8.4				
All Office Machine Operators	61100	4	0.1	NA	-	-	NA
Accounting Clerks	61301	38	0.8	10	42	34	15.1
Bookkeepers, Hand	61307	84	1.8	8	91	77	33.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
General Clerks, Office	61333	80	1.7	7	86	74	26.6
Secretaries	61368	67	1.4	7	72	62	29.5
All Other Office Clerical Workers	61900	23	0.5	NA	-	-	NA
Shipping Packers	62004	68	1.5	10	75	61	19.4
All Other Plant Clerical Workers	62900	27	0.6	NA	-	-	NA
SALES OCCUPATIONS	70000	84	1.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	75	1.6	8	81	69	15.1
All Other Sales Workers	79000	9	0.2	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Agricultural Scientists
Automatic Clippers, Veneer
Band Scroll Saw Operators
Bookkeeping and/or Billing Machine Operators
Carrier Drivers
Choker Setters, Lumber
Clerical Supervisors, Office or Plant
Computer Operators
Crane, Derrick and Hoist Operators
Cut-Off Sawyers, Log
Drapers
Edge Gluers
Engineering Equipment Mechanics
File Clerks
Food Service Workers
Gang Sawyers
Head Loaders
Industrial Engineers
Keypunch Operators
Kiln Stacker Operators
Loader Engineers
Machinists
Mechanical Engineers
Millwrights
Mixers and/or Blenders Chemicals and Chemical Products

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

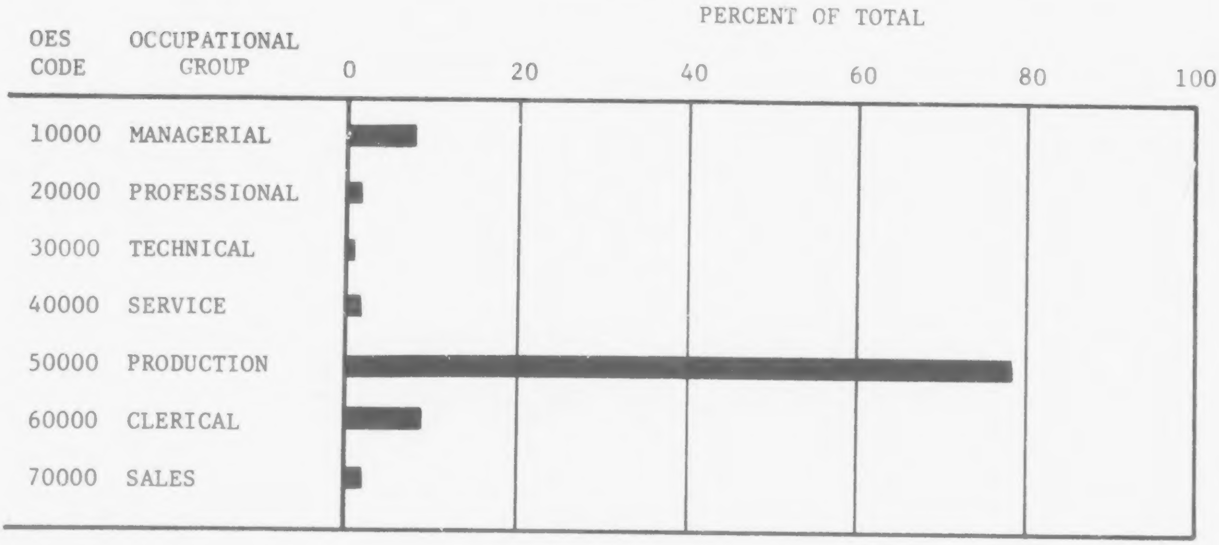
(SIC 24)

Order Fillers
Painters, Maintenance
Payroll and/or Timekeeping Clerks
Personnel and Labor Relations
 Specialists
Personnel Clerks
Plumbers and/or Pipefitters
Power Screwdriver Operators
Production Clerks and/or Coordinators
Receptionists
Rigging Slingers
Sales Clerks
Sawyers, Tail
Shipping and/or Receiving Clerks
Stationary Boiler Firers
Stock Clerks, Stock
Switchboard Operators
Switchboard Operators-Receptionists
Systems Analysts, Electronic Data
 Processing
Tally Clerks, Sawmill
Tenoner Operators
Typists
Welders and/or Flamecutters
Yarder Engineers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

LUMBER AND WOOD PRODUCTS EXCEPT FURNITURE

(SIC 24)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	5.0	-	725.6	-
1973	5.3	6.0	759.2	4.6
1974	5.0	- 5.7	712.3	- 6.2
1975	4.2	- 16.0	614.7	- 13.7
1976	4.6	9.5	679.6	10.6
1977	4.9	6.5	721.9	6.2
1978	5.2	6.1	754.7	4.5
1979	5.3	1.9	766.1	1.5
1980**	4.7	- 11.3	686.9	- 10.3

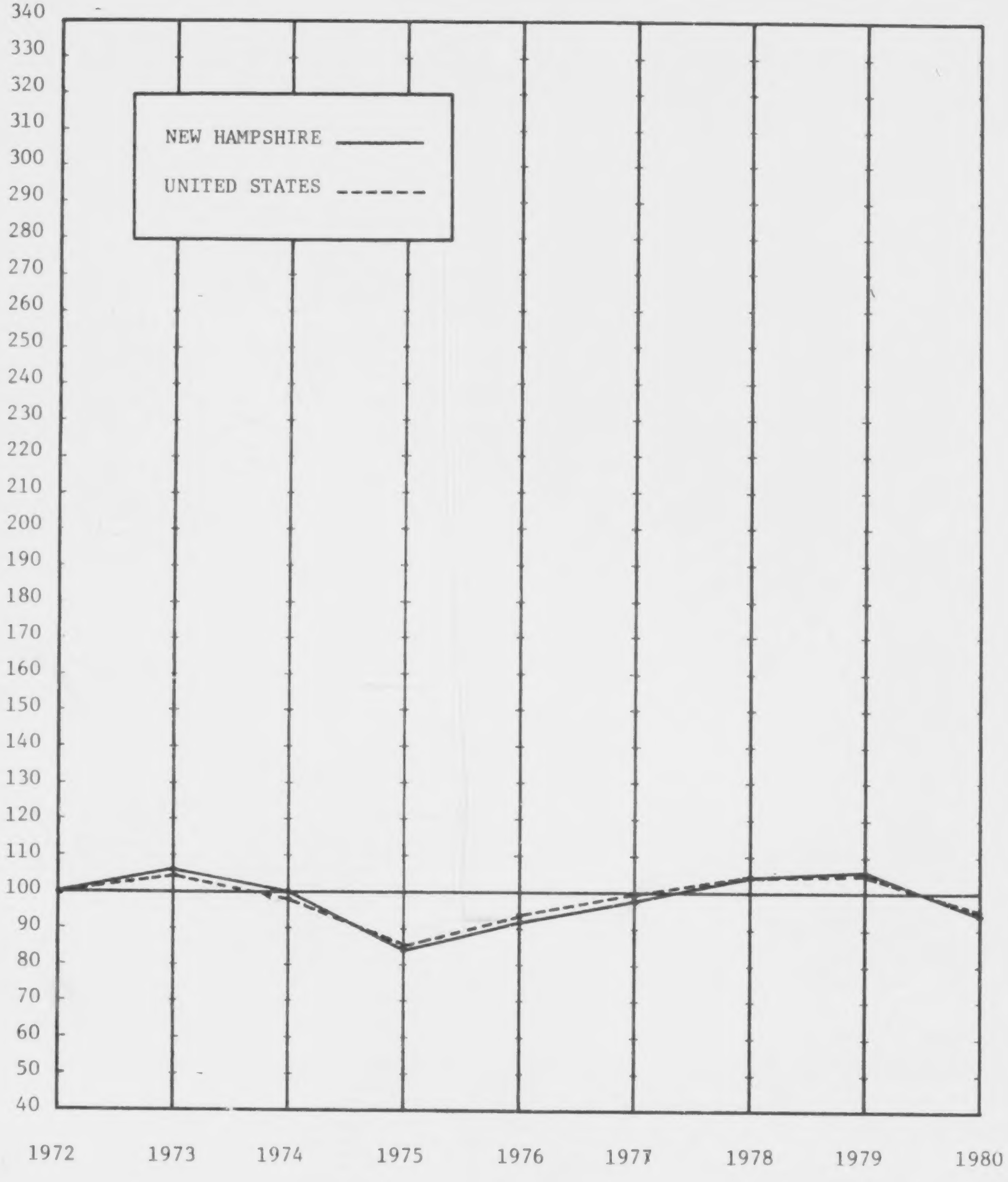
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FURNITURE AND FIXTURES
(SIC 25)

This major group includes establishments primarily engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures.

During the survey month of June 1980 there were 1,881 wage and salary workers in the furniture and fixtures industry. Nearly three of every four employees (1,406) were assigned to production occupations. This category also ranked first in a similar survey conducted in 1977 but employment has dropped by 98 workers (7 percent). Clerical occupations gained 73 new positions for an increase of more than 41 percent. The two largest occupations assemblers and wood sanders, had 150 and 112 employees respectively. Employment in both, however, slipped from the 1977 survey; assemblers decreased by 99 workers or 40 percent and there were 31 fewer wood sanders for a decline of 22 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U00	Assemblers	150
2	55N60	Sanders, Wood	112
3	55A38	Cabinetmakers	92
4	55B29	Supervisors, Nonworking	82
5	55L84	Off-Bearers	81
6	10000	Managers and Officers	75
7	55R68	Painters, Production	74
8	55N15	Ripsaw Operators	55
9	55C39	Production Packagers, Hand or Machine	38
	72002	Sales Clerks	38

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	79.3
2	55U00	Assemblers	58.6
3	55R68	Painters, Production	51.7
4	54000	Truck Drivers	48.3
	55B29	Supervisors, Nonworking	48.3
	55N60	Sanders, Wood	48.3

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		1,881	100.0				
MANAGERS AND OFFICERS	10000	75	4.0	6	80	70	79.3
PROFESSIONAL OCCUPATIONS	20000	57	3.0				
All Engineers	21000	6	0.3	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	17	0.9	18	20	14	31.0
Accountants and Auditors	25401	18	1.0	12	20	16	34.5
All Other Professional Workers	29000	16	0.8	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	18	1.0				
Drafters	32003	14	0.8	14	.6	12	17.2
All Other Technicians	39000	4	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	23	1.2				
Janitors, Porters, and Cleaners	41000	18	1.0	11	20	16	41.4
All Other Service Workers	49000	5	0.2	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	1,406	74.8				
All Mechanics and Repairers	51000	7	0.4	NA	-	-	NA
Truck Drivers	54000	36	1.9	8	39	33	48.3
Cabinetmakers	55A38	92	4.9	12	103	81	34.5
Supervisors, Nonworking	55B29	82	4.4	6	87	77	48.3
Industrial Truck Operators	55B57	12	0.6	15	14	10	20.7
Inspectors	55B58	20	1.1	25	25	15	31.0
Maintenance Repairers, General Utility	55B86	22	1.2	10	24	20	27.6
Helpers, Trades	55B87	15	0.8	14	17	13	17.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Production Packagers, Hand or Machine	55C39	38	2.0	15	44	32	20.7
Sewing Machine Operators Regular Equipment--Nongarment	55C78	13	0.7	29	17	9	6.9
Stationary Boiler Firers	55C90	14	0.7	26	18	10	13.8
Welders and/or Flamecutters	55D46	23	1.2	0	23	23	6.9
Furniture Finishers	55D86	13	0.7	35	18	8	10.3
Boring Machine Operators, Wood	55E98	29	1.5	14	33	25	27.6
Cut-Off Saw Operators, Lumber	55H19	31	1.7	7	33	29	37.9
Machine Setters, Woodworking	55K97	13	0.7	15	15	11	20.7
Off-Bearers	55L84	81	4.3	11	90	72	27.6
Ripsaw Operators	55N15	55	2.9	10	60	50	34.5
Rubbers	55N39	28	1.5	12	31	25	24.1
Sanders, Wood	55N60	112	6.0	7	120	104	48.3
Shaper and/or Router Operators	55P08	28	1.5	11	31	25	27.6
Tenoner Operators, Woodworking	55Q54	19	1.0	9	21	17	27.6
Variety Saw Operators	55R08	20	1.1	13	23	17	20.7
Woodworking Machine Operators	55R43	16	0.8	19	19	13	20.7
Painters, Production	55R68	74	3.9	7	79	69	51.7
Punch Press Operators, Metal	55R78	18	1.0	0	18	18	13.8
Power Brake and/or Bending Machine Operators, Metal	55S90	11	0.6	0	11	11	13.8
Assemblers	55U00	150	8.0	10	165	135	58.6
All Other Skilled Craft and Kindred Workers	59001	40	2.1	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	168	8.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	126	6.7	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
CLERICAL OCCUPATIONS	60000	248	13.2				
Keypunch Operators	61107	15	0.8	42	21	9	6.9
All Other Office Machine Operators	61199	7	0.4	NA	-	-	NA
Accounting Clerks	61301	15	0.8	12	17	13	24.1
Bookkeepers, Hand	61307	17	0.9	11	19	15	41.4
General Clerks, Office	61333	25	1.3	18	30	20	27.6
Order Clerks	61350	36	1.9	45	52	20	6.9
Secretaries	61368	18	1.0	9	20	16	34.5
All Other Office Clerical Workers	61900	37	2.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	17	0.9	10	19	15	31.0
Shipping Packers	62004	36	1.9	11	40	32	34.5
Shipping and/or Receiving Clerks	62005	19	1.0	10	21	17	31.0
All Other Plant Clerical Workers	62900	6	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	54	2.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.8	17	19	13	20.7
Sales Clerks	72002	38	2.0	22	46	30	10.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

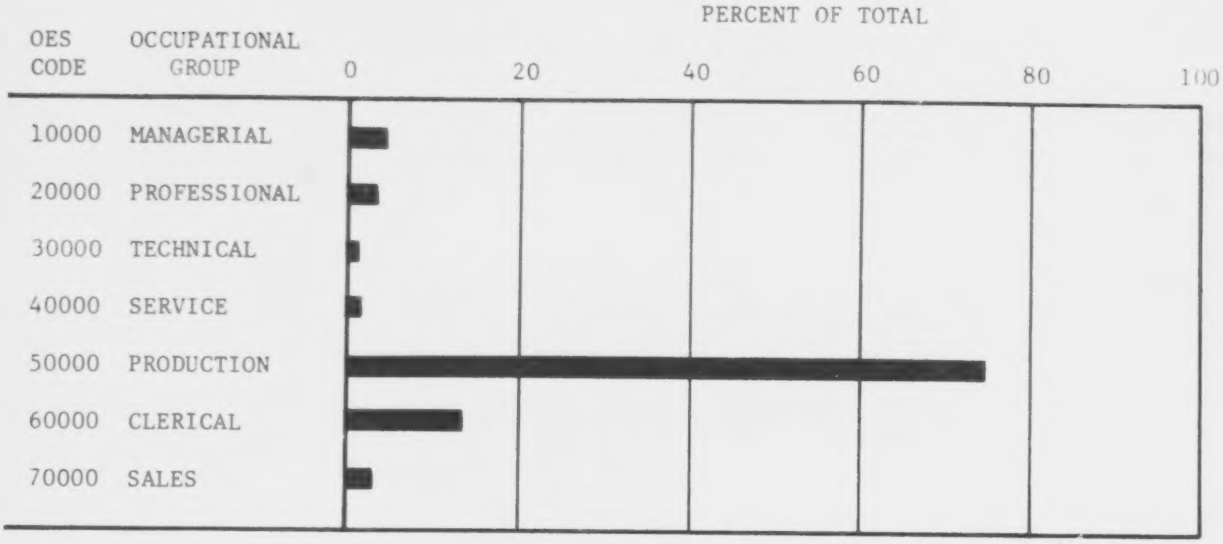
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Carpenters
Clerical Supervisors,
 Office or Plant
Computer Operators
Computer Programmers
Cushion Makers
Dado Operators
Decorators, Hand
Delivery and/or Route Workers
Designers
Dowel Machine Operators
Electricians
File Clerks
Filers,Grinders, Buffers,
 Chippers, Cleaners,
 and/or Polishers
Gluers and/or
 Cementers, Hand
Gluing Machine Operators
Industrial Engineers
Laminating Machine
 Operators, Furniture
Lathe Operators, Wood
Lay Out Markers, Wood
Machinists
Mattress Makers
Mechanical Engineers
Mechanics, Maintenance
Nailing Machine Operators
Oilers
Order Fillers
Patternmakers
Payroll and/or Timekeeping Clerks
Personnel and Labor
 Relations Specialists
Personnel Clerks
Plastic Top Installers
Power Screwdriver Operators
Procurement Clerks
Receptionists
Sewing Machine Operators,
 Special and/or Automatic
 Equipment--Nongarment
Shapers, Hand
Shear and/or Slitter Operators,
 Metal
Sheet Metal Workers
Springers
Statistical Clerks
Stock Clerks, Stockroom,
 Warehouse or Storage Yard
Supervisors, Nonworking --
 Service Only
Switchboard Operator-Receptionists
Testers
Tool and Die Makers
Typists
Upholsterers
Upholstery Cutters
Upholstery Trimmers
Wood Machinists

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FURNITURE AND FIXTURES

(SIC 25)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FURNITURE AND FIXTURES

(SIC 25)

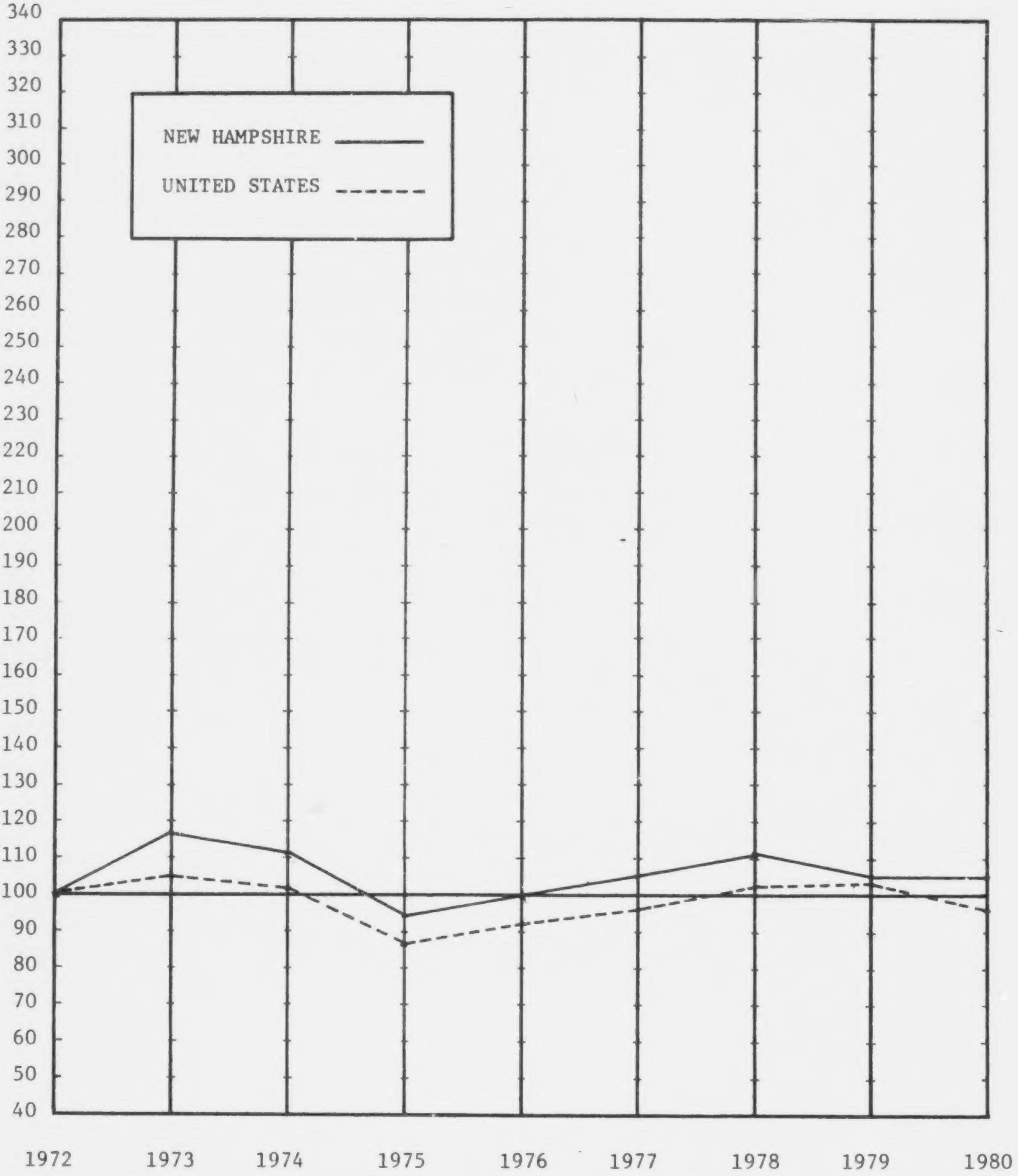
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	1.8	-	483.3	-
1973	2.1	16.7	506.8	4.9
1974	2.0	- 4.8	489.3	- 3.5
1975	1.7	- 15.0	416.9	- 14.8
1976	1.8	5.9	444.3	6.6
1977	1.9	5.6	464.3	4.5
1978	2.0	5.3	494.1	6.4
1979	1.9	- 5.0	499.3	1.1
1980**	1.9	0	473.7	- 5.1

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FURNITURE AND FIXTURES
(SIC 25)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
(SIC 32)

This major group includes establishments primarily engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken from the earth in the form of stone, clay, and sand.

Firms in this industry, during the survey of May 1980, employed 2,939 wage and salary workers, an increase of 537 or 22 percent over a similar survey taken three years earlier. Over 75 percent of total employment was concentrated in production related jobs which increased by 378 since 1977.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	54000	Truck Drivers	298
2	10000	Managers and Officers	190
3	55R58	Press Operators	158
4	55B58	Inspectors	143
5	55C39	Production Packagers, Hand or Machine	116
6	55B29	Supervisors, Nonworking	79
7	55N91	Selectors, Glassware	75
8	55B86	Maintenance Repairers, General Utility	68
9	71000	Sales Representatives, Sales Agents, and/or Sales Associates	59
10	55B57	Industrial Truck Operators	51

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	88.1
2	54000	Truck Drivers	42.9
3	55B57	Industrial Truck Operators	38.1
4	61333	General Clerks, Office	35.7
5	55B29	Supervisors, Nonworking	31.0

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,939	100.0				
MANAGERS AND OFFICERS	10000	190	6.5	5	200	180	88.1
PROFESSIONAL OCCUPATIONS	20000	93	3.1				
Mechanical Engineers	21008	19	0.6	9	21	17	9.5
All Other Engineers	21900	16	0.6	NA	-	-	NA
Chemists	22201	10	0.3	21	12	8	4.8
Systems Analysts, Electronic Data Processing	24000	10	0.3	15	12	8	4.8
Accountants and Auditors	25401	15	0.5	9	16	14	14.3
All Other Professional Workers	29000	23	0.8	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	72	2.4				
Drafters	32003	27	0.9	8	29	25	9.5
Mechanical Engineering Technicians	32010	23	0.8	11	26	20	4.8
Science Technicians	33000	10	0.3	12	11	9	2.4
All Other Technicians	39000	12	0.4	NA	-	-	NA
SERVICE OCCUPATIONS	40000	67	2.3				
Janitors, Porters, and Cleaners	41000	41	1.4	9	45	37	21.4
Guards and Doorkeepers	42000	12	0.4	10	13	11	4.8
Supervisors, Nonworking--Service Only	44014	14	0.5	2	14	14	2.4
PRODUCTION OCCUPATIONS	50000	2,225	75.7				
Mechanics, Automotive	51008	33	1.1	19	39	27	21.4
Mechanics, Maintenance	51043	26	0.9	31	34	18	14.3
Truck Drivers	54000	298	10.1	17	349	247	42.9
Supervisors, Nonworking	55B29	79	2.7	8	85	73	31.0
Heavy Equipment Operators	55B52	17	0.6	35	23	11	9.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Industrial Truck Operators	55B57	51	1.6	16	59	43	38.1
Inspectors	55B58	143	4.9	10	157	129	14.3
Maintenance Repairers, General Utility	55B86	68	2.3	20	82	54	26.2
Order Fillers	55C08	22	0.7	15	25	19	2.4
Production Packagers, Hand or Machine	55C39	116	4.0	4	121	111	23.8
Blockmaking Machine Operators	55E86	41	1.4	43	59	23	9.5
Breakers	55F14	18	0.6	2	18	18	2.4
Forming Machine Operators, Glass Container	55I97	13	0.4	0	13	13	2.4
Glass Cut-Off Machine Operators and/or Cutting Machine Operators	55J34	35	1.2	2	36	34	2.4
Glass Grinders and/or Watch Crystal Edge Grinders	55J37	32	1.1	2	33	31	2.4
Molding Machine Operators	55L63	13	0.4	11	14	12	2.4
Power Press Tenders	55M51	16	0.6	11	18	14	2.4
Refactory Grinders Operators	55N03	20	0.7	11	22	18	2.4
Sandblasters, Stone	55N54	11	0.4	2	11	11	4.8
Sawyers, Stone	55N65	47	1.6	9	51	43	9.5
Selectors, Glassware	55N91	75	2.6	2	76	74	2.4
Stone Cutters, Hand	55Q20	47	1.6	3	48	46	7.1
Stone Cutters, Machine	55Q21	17	0.6	0	17	17	2.4
Stone Polishers	55Q25	17	0.6	12	19	15	7.1
Testers	55Q57	18	0.6	16	21	15	7.1
Press Operators	55R58	158	5.4	12	177	139	2.4
Mixers, Stone, Clay, Glass and Related Products	55S04	12	0.4	13	14	10	9.5
Decorators, Hand	55V04	44	1.5	7	47	41	4.8
Furnace, Kiln, Drier, or Oven Operator/Tenders	55V11	16	0.6	21	19	13	11.9
Batch Plant Operators	57004	42	1.4	23	52	32	26.2
All Other Skilled Craft and Kindred Workers	59001	66	2.2	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Operatives and Semiskilled Workers	59002	244	8.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	370	12.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	231	7.9				
All Office Machine Operators	61100	12	0.4	NA	-	-	NA
Bookkeepers, Hand	61307	26	0.9	21	31	21	28.6
General Clerks, Office	61333	37	1.2	15	43	31	35.7
Order Clerks	61350	11	0.4	5	12	10	11.9
Secretaries	61368	30	1.0	10	33	27	26.2
Clerical Supervisors	61396	10	0.3	8	11	9	7.1
All Other Office Clerical Workers	61900	40	1.4	NA	-	-	NA
Shipping Packers	62004	16	0.6	16	19	13	14.3
Shipping and/or Receiving Clerks	62005	27	0.9	2	28	26	11.9
Dispatchers, Vehicle, Service or Work	62018	11	0.4	30	14	8	7.1
All Other Plant Clerical Workers	62900	11	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	61	2.1				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	59	2.0	10	65	53	23.8
All Other Sales Workers	79000	2	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

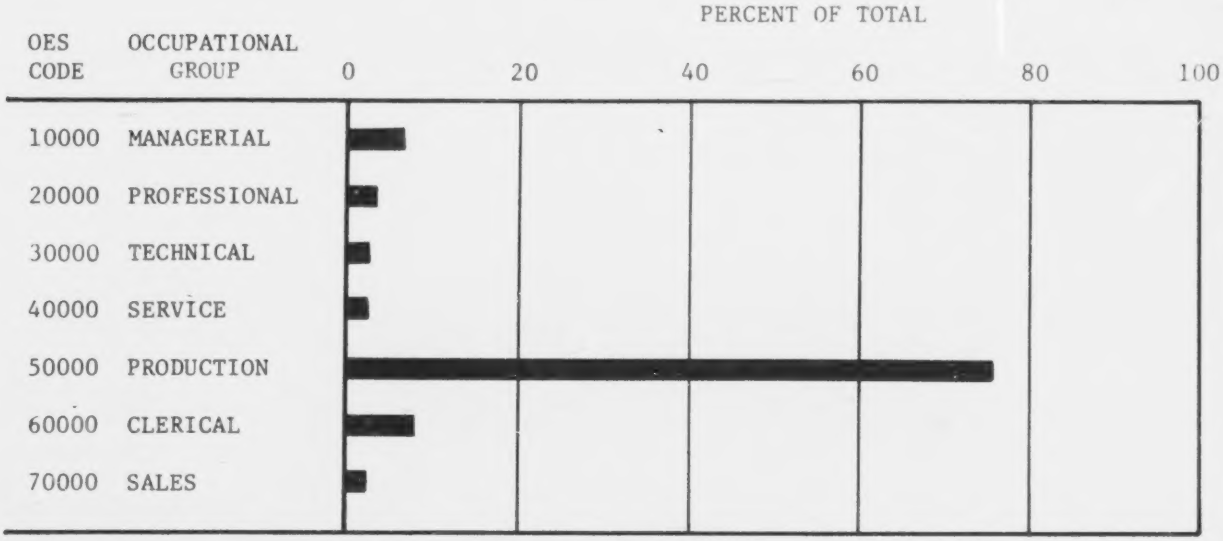
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Abrasive Grinders
Accounting Clerks
Bookkeeping and/or Billing Machine Operators
Braiding Machine Operators
Brick and Tile Making Machine Operators
Cage Makers, Hand or Machine
Calender Machine Operators
Card Tenders, Comber Tenders, and/or Card Strippers
Carpenters
Casters, Pottery and Porcelain
Ceramic Engineers
Chemical Engineers
Clay Makers
Computer Operators
Computer Programmers
Concrete Pipe Makers
Concrete Stone Fabricators
Concrete Vault Makers
Conveyor Operators or Tenders
Crane, Derrick, and Hoist Operators
Delivery and/or Route Workers
Designers
Drillers, Machine
Electrical and Electronic Engineers
Electrical and Electronic Technicians
Electricians
Floor Workers, Glass
Forming-Machine Maintainers, Glass
Glass Blowers, Glassware and/or Laboratory Apparatus
Grinding and/or Abrading Machine Operators, Metal
Helpers, Trades
Industrial Engineers
Industrial Engineering Technicians
Instrument Repairers
Keypunch Operators
Machine Tool Operators, Combination
Machinists
Millers, Clay
Model and/or Mold Makers
Nurses, Professional
Oilers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

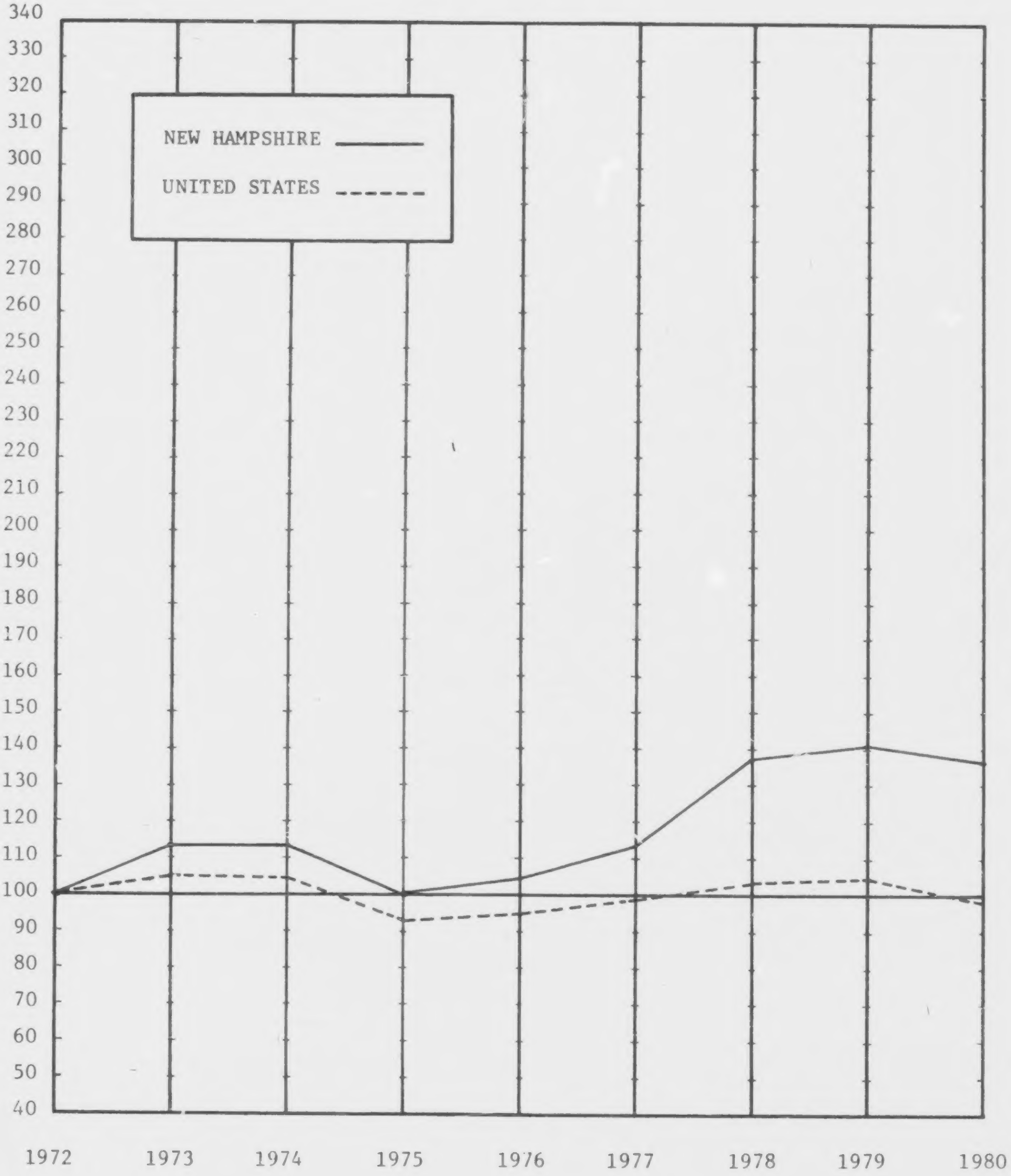
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.2	-	678.1	-
1973	2.5	13.6	715.7	5.5
1974	2.5	0	707.7	- 1.1
1975	2.2	- 12.0	629.0	- 11.1
1976	2.3	4.5	644.4	2.4
1977	2.5	10.7	668.7	3.8
1978	2.8	12.0	698.2	4.4
1979	3.1	10.7	709.7	1.6
1980 **	3.0	- 3.2	667.9	- 5.9

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
(SIC 32)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
PRIMARY METAL INDUSTRIES
(SIC 33)

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

During the survey month of April 1980 there were 3,741 wage and salary workers employed in the primary metals industries which represented a substantial gain of 1,226 workers during the three year period since the previous survey for the same month of 1977. The production and production related occupational group remained proportionately stable since the last survey to maintain a level of over 80 percent of the total employment for the industry. The three most prominent single occupations, filers, grinders, buffers, chippers, cleaners, and or polishers (378 workers), managers and officers (207 workers), and inspectors (151 workers) combined to make up almost 20 percent of the total work force in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	378
2	10000	Managers and Officers	207
3	55B58	Inspectors	151
4	55I47	Insulating, Extruding Machine Operators and/or Insulating Lead Press Operators	140
5	55L57	Molders, Bench and/or Floor	137
6	55B29	Supervisors, Nonworking	127
7	55G86	Coremakers, Machine	124
8	55R30	Wax Pattern Workers	107
9	55C27	Pourers, Metal	74
10	55B86	Maintenance Repairers, General Utility	69

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	95.2
2	55B29	Supervisors, Nonworking	66.7
3	25300	Purchasing Agents and/or Buyers	57.1
4	55B86	Maintenance Repairers, General Utility	52.4
	62004	Shipping Packers	52.4

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		3,741	100.0				
MANAGERS AND OFFICERS	10000	207	5.5	7	221	193	95.2
PROFESSIONAL OCCUPATIONS	20000	148	4.0				
Mechanical Engineers	21008	15	0.4	15	17	13	28.6
All Other Engineers	21900	57	1.5	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	29	0.8	10	32	26	57.1
Accountants and Auditors	25401	33	0.9	16	38	28	42.9
All Other Professional Workers	29000	14	0.4	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	87	2.3				
Electrical and Electronic Technicians	32004	38	1.0	16	44	32	14.3
All Other Engineering Technicians	32900	47	1.2	NA	-	-	NA
All Other Technicians	39000	2	0.1	NA	-	-	NA
SERVICE OCCUPATIONS	40000	31	0.8				
Janitors, Porters, and Cleaners	41000	28	0.7	22	34	22	42.9
All Other Service Workers	49000	3	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	3,011	80.5				
Mechanics, Maintenance	51043	16	0.4	11	18	14	23.8
All Other Mechanics and Repairers	51900	1	*	NA	-	-	NA
Truck Drivers	54000	10	0.3	16	12	8	19.0
Electricians	55B12	19	0.5	15	22	16	23.8
Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	55B19	378	10.1	12	423	333	42.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Supervisors, Nonworking	55B29	127	3.4	14	145	109	66.7
Industrial Truck Operators	55B57	22	0.6	16	26	18	19.0
Inspectors	55B58	151	4.0	27	192	110	42.9
Machinists	55B84	27	0.7	30	35	19	33.3
Maintenance Repairers, General Utility	55B86	69	1.9	15	79	59	52.4
Helpers, Trades	55B87	17	0.5	34	23	11	23.8
Millwrights	55B95	26	0.7	26	33	19	9.5
Pourers, Metal	55C27	74	2.0	39	103	45	28.6
Production Packagers, Hand or Machine	55C39	16	0.4	2	16	16	9.5
Sandblasters	55C64	46	1.2	16	53	39	28.6
Coilers, Winder and/or Spooler	55G51	19	0.5	19	23	15	14.3
Coremakers, Hand, Bench, and/or Floor	55G85	18	0.5	46	26	10	19.0
Coremakers, Machine	55G86	124	3.3	35	167	81	33.3
Drill Press and/or Boring Machine Operators	55H95	39	1.0	42	55	23	19.0
Insulating Extruding Machine Operators and/or Insulating Lead Press Operators	55I47	140	3.8	40	196	84	19.0
Heat Treaters, Annealers, and/or Temperers	55J85	31	0.8	25	39	23	19.0
Lathe and/or Turning Machine Operators, Metal	55K58	22	0.6	41	31	13	19.0
Molders, Bench and/or Floor	55L57	137	3.7	25	171	103	28.6
Molders, Machine	55L61	53	1.4	43	76	30	28.6
Patternmakers, Wood	55M10	18	0.5	34	24	12	23.8
Samplers and/or Test Preparers	55N52	20	0.5	27	25	15	4.8
Shakeout Workers, Foundry	55P03	48	1.3	45	70	26	38.1
Shell-Mold and/or Shell-Core Machine Operators	55P13	27	0.7	30	35	19	14.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Stranding Machine Operators	55Q31	27	0.7	12	30	24	14.3
Testers	55Q57	38	1.0	33	51	25	19.0
Wax Pattern Workers	55R30	107	2.9	42	152	62	14.3
Wire Drawers	55R41	26	0.7	21	31	21	9.5
Core Assemblers, Pasters and/or Finishers	55S09	19	0.5	15	22	16	9.5
Furnace Operators and/or Cupola Tenders	55S16	42	1.1	34	56	28	38.1
Insulation Wrapping or Braiding Machine Operators	55S52	38	1.0	21	46	30	9.5
Mill and/or Grinder Operators, Minerals	55S98	53	1.4	44	76	30	9.5
Mold Closers, Core Setters and/or Weight and Jacket Setters	55T73	23	0.6	28	29	17	14.3
All Other Skilled Craft and Kindred Workers	59001	140	3.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	481	12.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	322	8.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	235	6.3				
Bookkeeping and/or Billing Machine Operators	61103	15	0.4	27	19	11	19.0
All Other Office Machine Operators	61199	2	0.1	NA	-	-	NA
Bookkeepers, Hand	61307	20	0.5	44	29	11	23.8
General Clerks, Office	61333	23	0.6	27	29	17	38.1
Receptionists	61361	10	0.3	15	12	8	19.0
Secretaries	61368	25	0.7	23	31	19	42.9
Typists	61392	12	0.3	25	15	9	19.0
All Other Office Clerical Workers	61900	40	1.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	12	0.3	28	15	9	23.8
Shipping Packers	62004	37	1.0	30	48	26	52.4
Shipping and/or Receiving Clerks	62005	27	0.7	35	36	18	47.6
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	12	0.3	24	15	9	19.0
SALES OCCUPATIONS	70000	22	0.6				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.4	15	18	14	33.3
All Other Sales Workers	79000	6	0.2	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRIMARY METAL INDUSTRIES

(SIC 33)

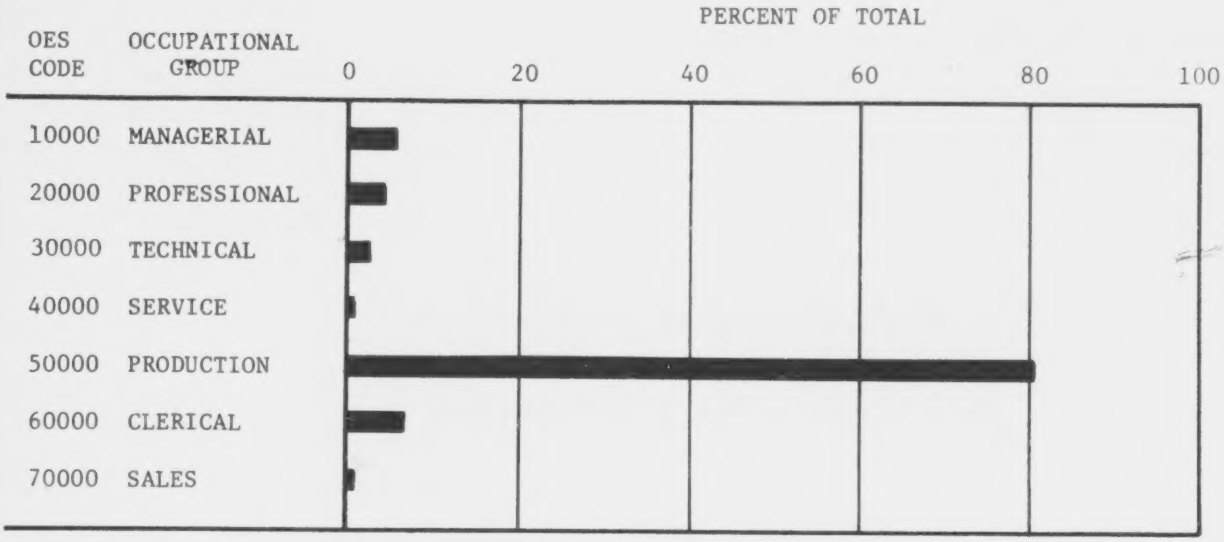
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accounting Clerks
Assemblers
Blacksmiths
Carpenters
Casters, Finished or Semi-Finished Products
Chemical Engineers
Clerical Supervisors, Office or Plant
Computer Operators
Computer Programmers
Crane, Derrick, and Hoist Operators
Delivery and/or Route Workers
Die-Casting Machine Operators, Metal and/or Die-Casting Operators
Die Polishers, Wire and/or Tube
Drafters
Electrical and Electronic Engineers
Electroplaters
Furnace Operator Helpers or Heater Helpers
Grinding and/or Abrading Machine Operators, Metal
Guards and Doorkeepers
Industrial Engineering Technicians
Industrial Engineers
Instrument Repairers
Machine Tool Operators, Combination
Machine Tool Operators, Numerical Control
Machine Tool Operators, Toolroom
Mechanical Engineering Technicians
Metal Engineers
Milling and/or Planing Machine Operators
Mixer Operators, Hot Metal
Nurses, Professional
Oilers
Order Clerks
Order Fillers
Painters, Maintenance
Painters, Production
Patternmakers, Metal
Payroll and/or Timekeeping Clerks
Personnel and Labor Relations Specialists
Personnel Clerks
Picklers, Continuous Pickling Line
Plumbers and/or Pipefitters
Pot Tenders
Precipitator Operators
Procurement Clerks
Punch-Press Operators, Metal
Radiographers
Refractory Materials Repairers
Rolling Mill Operators and/or Attendants, Rough or Finished
Sales Clerks
Sand Cutters, Mixers and/or Slingers
Sawyers, Metal
Scrap Sorters
Setters, Molding and Coremaking Machine
Shear and/or Slitter Operators, Metal
Spectroscopists
Stationary Boiler Firers
Stripping Machine Operators, Insulated Wire
Switchboard Operators
Switchboard Operator/Receptionists
Tool and Die Makers
Tool Programmers, Numerical Control
Weighers, Production
Welders and/or Flamecutters

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PRIMARY METAL INDUSTRIES

(SIC 33)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PRIMARY METAL INDUSTRIES

(SIC 33)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.5	-	1,173.3	-
1973	2.8	12.0	1,259.1	7.3
1974	2.9	3.6	1,288.8	2.4
1975	2.4	- 17.2	1,139.0	- 11.6
1976	2.5	4.2	1,154.9	1.4
1977	2.6	4.0	1,181.6	2.3
1978	2.8	7.7	1,214.9	2.8
1979	3.3	17.9	1,250.2	2.9
1980 **	3.9	18.2	1,133.3	- 9.4

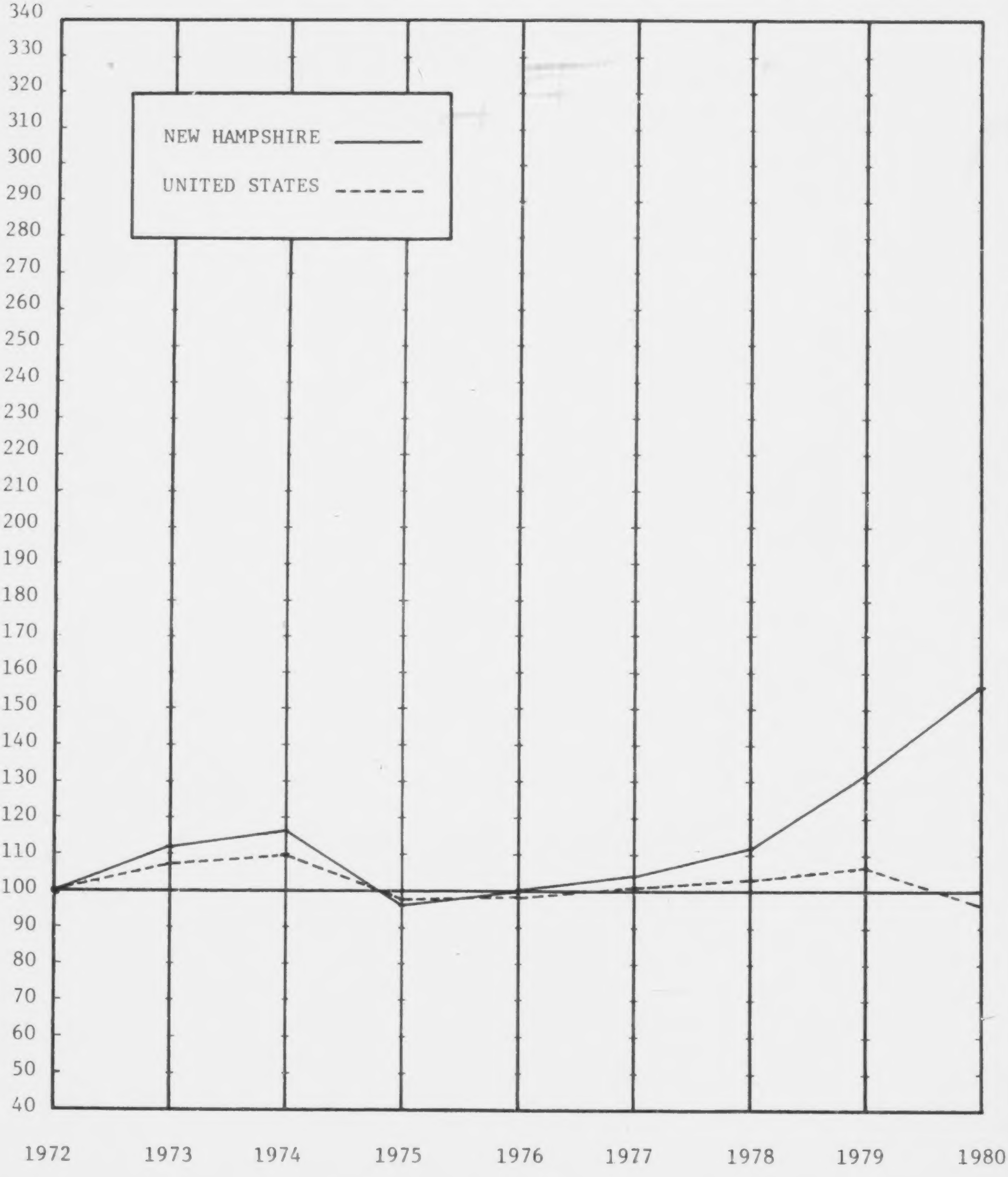
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PRIMARY METAL INDUSTRIES

(SIC 33)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT
(SIC 34)

This major group includes establishments primarily engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified.

During the survey month of June 1980 there were 7,413 wage and salary workers employed in this industry which reflected an increase of 870 new jobs since the previous survey during the same month three years ago. The largest occupational group, production and production related occupations, employed 5,778 workers, or 78 percent of the total employment in this major group. The three leading single occupations, assemblers with 692 workers, machine tool operators (combination) with 498 workers, and managers and officers with 344 workers combined to constitute more than 20 percent of the total employment in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U00	Assemblers	692
2	55L01	Machine Tool Operators, Combination	498
3	10000	Managers and Officers	344
4	55D46	Welders and/or Flamecutters	341
5	55B29	Supervisors, Nonworking	335
6	55B19	Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers	288
7	55R78	Punch-Press Operators, Metal	219
8	55B58	Inspectors	184
9	55K58	Lathe and/or Turning Machine Operators, Metal	164
10	55D23	Tool and Die Makers	156

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	86.4
2	55B29	Supervisors, Nonworking	55.7
3	61333	General Clerks, Office	48.9
4	55U00	Assemblers	40.9
5	61368	Secretaries	39.8

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		7,413	100.0				
MANAGERS AND OFFICERS	10000	344	4.6	4	358	330	86.4
PROFESSIONAL OCCUPATIONS	20000	342	4.6				
Industrial Engineers	12006	122	1.7	16	142	102	9.1
Mechanical Engineers	21008	84	1.1	26	106	62	19.3
All Other Engineers	21900	13	0.2	NA	-	-	NA
Puchasing Agents and/or Buyers	25300	30	0.4	10	33	27	19.3
Accountants and Auditors	25401	31	0.4	12	35	27	23.9
Cost Estimators, Engineering	25427	24	0.3	13	27	21	12.5
All Other Professional Workers	29000	38	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	92	1.2				
Drafters	32003	61	0.8	16	71	51	20.5
Mechanical Engineering Technicians	32010	16	0.2	2	16	16	4.5
All Other Engineering Technicians	32900	12	0.2	NA	-	-	NA
ALL OTHER TECHNICIANS	29000	3	*	NA	-	-	NA
SERVICE OCCUPATIONS	40000	99	1.4				
Janitors, Porters, and Cleaners	41000	78	1.1	5	82	74	33.0
Supervisors, Nonworking-Service Only	44014	11	0.2	0	11	11	1.1
All other Service Workers	49000	10	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,778	78.0				
Mechanics, Maintenance	51043	117	1.6	7	125	109	21.6
All Other Mechanics and Repairers	51900	8	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Truck Drivers	54000	43	0.6	13	49	37	29.5
Electricians	55B12	16	0.2	5	17	15	8.0
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	288	3.9	9	314	262	20.5
Supervisor, Nonworking	55B29	335	4.5	4	348	322	55.7
Riggers	55B54	30	0.4	20	36	24	2.3
Industrial Truck Operators	55B57	61	0.8	9	66	56	20.5
Inspectors	55B58	184	2.5	10	202	166	33.0
Machinists	55B54	32	0.4	17	37	27	9.1
Maintenance Repairers, General Utility	55B86	48	0.7	8	52	44	15.9
Helpers, Trades	55B87	79	1.1	22	96	62	21.6
Metal Fabricators	55B91	141	1.9	20	169	113	8.0
Order Fillers	55C08	12	0.2	5	13	11	3.4
Electroplaters	55C29	112	1.5	11	124	100	10.2
Production Packagers, Hand or Machine	55C39	101	1.4	9	110	92	26.1
Sandblasters and/or Shotblasters	55C64	17	0.2	9	19	15	6.8
Sheet Metal Workers	55C81	84	1.1	22	102	55	12.5
Tool and Die Makers	55D23	156	2.1	15	179	133	21.6
Welders and/or Flamecutters	55D46	341	4.6	8	368	314	35.2
Drill Press and/or Boring Machine Operators	55H95	140	1.9	5	147	133	23.9
Grinding and/or Abrading Machine Operators, Metal	55J63	140	1.9	5	147	133	19.3
Heater Operators	55J84	18	0.3	0	18	18	2.3
Heat Treaters, Annealers, and/or Temperers	55J85	17	0.2	0	17	17	3.4
Lathe and/or Turning Machine Operators, Metal	55k58	164	2.2	4	171	157	14.8
Lay-Out Markers, Metal	55k61	44	0.6	23	54	34	14.8
Machine Tool Operators, Combination	55L01	498	6.7	4	518	478	20.5
Machine Tool Setters, Metal Working	55L04	135	1.8	5	142	128	18.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Milling and/or Planning Machine Operators	55L31	30	0.4	0	30	30	2.3
Molders, Machine	55L61	38	0.5	0	38	38	1.1
Plater Helper	55M32	91	1.2	11	101	81	11.4
Shakeout Workers, Foundry	55P03	32	0.4	0	32	32	1.1
Testers	55Q57	17	0.2	10	19	15	4.5
Woodworking Machine Operators	55R43	76	1.0	0	76	76	2.3
Painters, Production	55R68	94	1.3	18	111	77	22.7
Punch-Press Operators, Metal	55R78	219	3.0	14	250	188	29.5
Punch-Press Setters, Metal	55R79	27	0.4	31	35	19	4.5
Shear and/or Slitter Operators, Metal	55R80	30	0.4	35	40	20	14.8
Compression and/or Injection Molding Machine Operator, Plastics	55R85	33	0.5	0	33	33	3.4
Conveyor Operators or Tenders	55R90	22	0.3	3	23	21	2.3
Furnace Operators and/or Cupola Tenders	55S16	13	0.2	0	13	13	2.3
Fillers, Structural Metal	55S31	16	0.2	30	21	11	3.4
Bodymaker Operators, Tin Can	55S33	13	0.2	0	13	13	1.1
Power Brake and/or Bending Machine Operators, Metal	55S90	84	1.1	15	97	71	23.9
Assemblers	55U00	692	9.3	12	775	609	40.9
All Other Skilled Craft And Kindred Workers	59001	135	1.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	409	5.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	346	4.7	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	690	9.3				
All Office Machine Operators	61100	18	0.3	NA	-	-	NA
Accounting Clerks	61301	14	0.2	19	17	11	10.2
Bookkeepers, Hand	61307	51	0.7	10	56	45	33.0

See page 184 for explanation of footnotes.

STAFFING PATTERN

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
General Clerks, Office	61333	133	1.8	7	142	124	48.9
Order Clerks	61350	16	0.2	48	24	8	5.7
Payroll and/or Timekeeping Clerks	61351	22	0.3	9	24	20	13.6
Procurement Clerks	61355	10	0.1	25	12	8	8.0
Secretaries	61368	76	1.0	8	82	70	39.8
Switchboard Operator/ Receptionists	61377	15	0.2	18	18	12	13.6
Typists	61392	22	0.3	5	23	21	8.0
All Other Office Clerical Workers	61900	77	1.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	52	0.7	12	58	46	13.6
Shipping Packers	62004	56	0.8	21	68	44	14.8
Shipping and/or Receiving Clerks	62005	32	0.4	5	34	30	23.9
Stock Clerks, Stockroom, Warehouse, or Storage Yard	62008	69	0.9	8	75	63	17.0
All Other Plants Clerical Workers	62900	27	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	68	0.9				
Sales Representatives, Sales Agents and/or Sales Associates	71000	55	0.7	18	65	45	21.6
All Other Sales Workers	79000	13	0.2	NA	-	-	NA

*Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

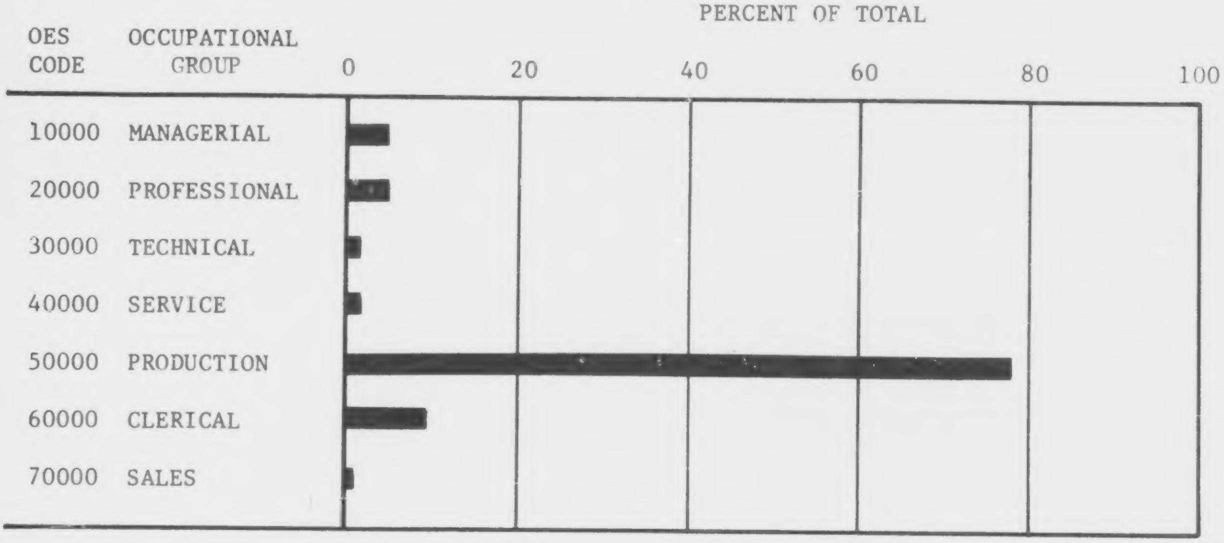
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All or "All Other" category.

Automatic Spring Coiling Machine Operators
Bookkeeping and/or Billing Machine Operators
Carpenters
Chemists
Civil Engineers
Clerical Supervisors, Office or Plant
Computer Operators
Computer Programmers
Crane, Derrick and Hoist Oeprators
Delivery and/or Route Workers
Designers
Dip Planters, Non-Electrolytic
Electrical and Electronic Technicians
Etchers and/or Engravers
File Clerks
Food Service Workers
Furnace Operator Helpers or Heater Helpers
Guards and Doorkeepers
Heaters, Metal
Keypunch Operators
Loading Machine Operators
Machine Tool Operators, Numerical Control
Machine Tool Operators, Toolroom
Metal Engineers
Millwrights
Molders, Bench and/or Floor
Nurses, Professional
Oilers
Patternmakers, Metal
Personnel and Labor Relations Specialists
Personnel Clerks
Pourers, Metal
Receptionists
Refractory Materials Repairers
Riveters, Heavy
Riveters, Light
Roll Forming Machine Operators
Sales Clerks
Sawyers, Metal
Science Technicians
Shear and/or Slitter Setters
Stationary Boiler Firers
Structural Steel Workers
Switchboard Operators
Systems Analysts, Electronic Data Processing
Tool Programmers, Numerical Control

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.4	-	1,546.7	-
1973	5.0	13.6	1,651.1	6.7
1974	4.8	- 4.0	1,638.5	- 0.8
1975	4.7	- 2.1	1,458.3	- 11.0
1976	5.7	21.3	1,510.9	3.6
1977	5.8	1.8	1,582.8	4.8
1978	6.6	13.8	1,672.6	5.7
1979	7.3	10.6	1,723.7	3.1
1980 **	7.5	2.7	1,627.1	- 5.6

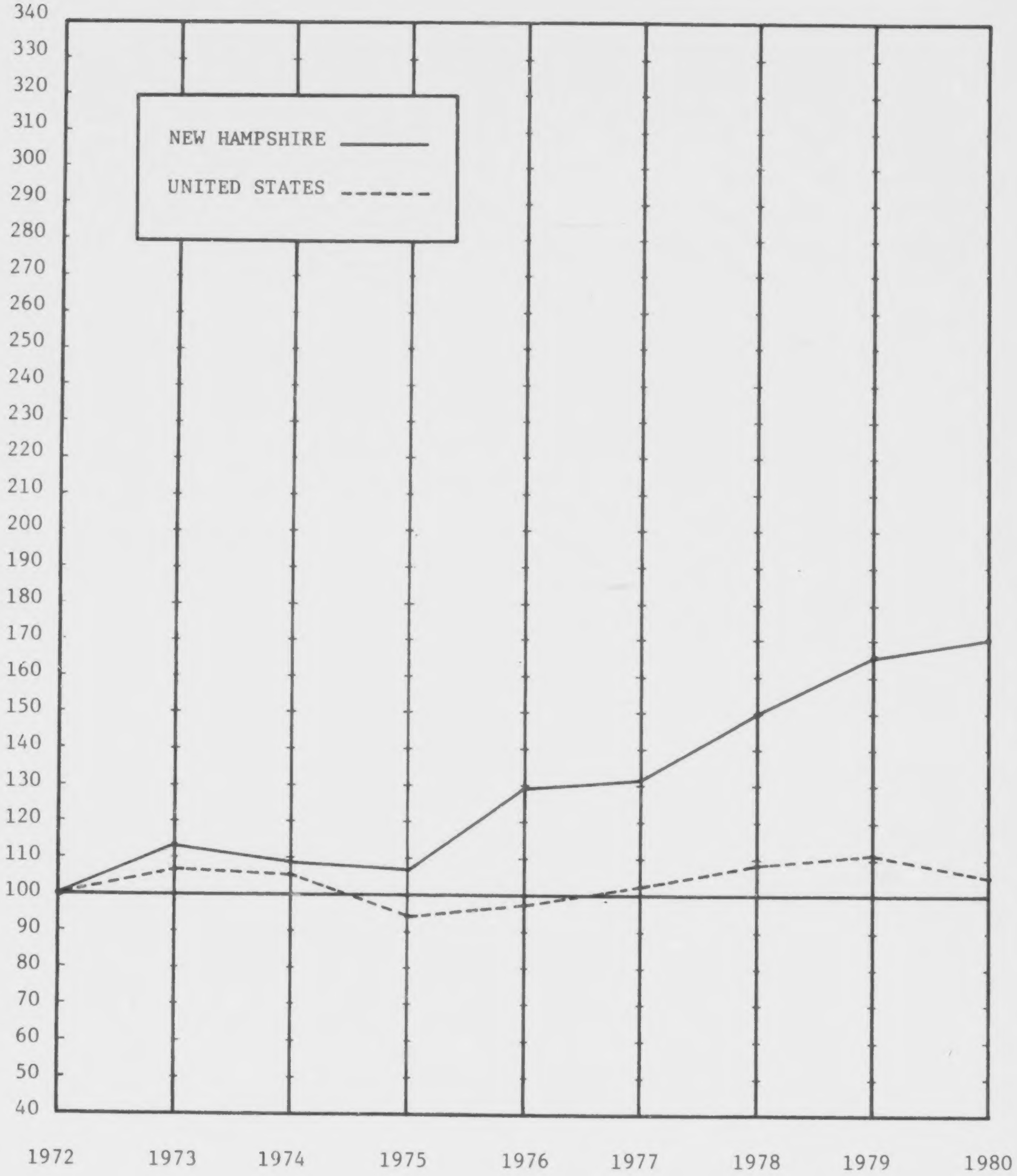
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MACHINERY, EXCEPT ELECTRICAL
(SIC 35)

This major group includes establishments primarily engaged in manufacturing machinery and equipment (except electrical and transportation), machines powered by built-in or detachable motors (except electrical household appliances), and portable tools, both electric and pneumatic powered (except hand tools).

During the survey month of June 1980, there were 23,442 wage and salary workers employed in the nonelectrical machinery industries. This represents a 49 percent increase (7,699 new jobs) over the three year period since the previous survey of June 1977 which is largely due to the significant influx into New Hampshire of new firms manufacturing office, computing, and accounting machines. The largest occupational group in this industry was in the production and production related activities with 52 percent of the workers, followed by the clerical group (over 15 percent) and the professional group (almost 14 percent). This reflects the relatively high level of research and development that is found in many large companies in these industries. The three most prominent single occupations, managers and officers with 1,838 employees, electrical and electronic assemblers with 1,718 workers, and electrical and electronic technicians with 1,200 workers combine to constitute over 20 percent of the total employment in this major industrial group.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	1,838
2	55U84	Electrical and Electronic Assemblers	1,718
3	32004	Electrical and Electronic Technicians	1,200
4	55B58	Inspectors	886
5	61368	Secretaries	855
6	55U81	Machine Assemblers	786
7	55B29	Supervisors, Nonworking	783
8	55J63	Grinding and/or Abrading Machine Operators, Metal	657
9	55L01	Machine Tool Operators, Combination	499
10	55K58	Lathe and/or Turning Machine Operators, Metal	487

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	83.5
2	61368	Secretaries	46.0
3	55B29	Supervisors, Nonworking	45.3
	61333	General Clerks, Office	45.3
5	55L01	Machine Tool Operators, Combination	38.8

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		23,442	100.0				
MANAGERS AND OFFICERS	10000	1,838	7.8	12	2,059	1,617	83.5
PROFESSIONAL OCCUPATIONS	20000	3,228	13.8				
Chemical Engineers	21003	28	0.1	25	35	21	2.2
Civil Engineers							
Electrical and Electronic Engineers	21005	202	0.9	10	222	182	13.7
Industrial Engineers	21006	461	2.0	13	521	401	21.6
Mechanical Engineers	21008	383	1.6	8	414	352	25.2
All Other Engineers	21900	485	2.1	NA	-	-	NA
Systems Analysts, Business	24001	48	0.2	8	52	44	7.9
Purchasing Agents and/or Buyers	25300	139	0.6	6	147	138	21.6
Accountants and Auditors	25401	283	1.2	11	314	252	25.9
Commercial Artists	25426	44	0.2	27	56	32	6.5
Cost Estimators, Engineering	25427	25	0.1	10	28	22	8.6
Writers and/or Editors	25436	183	0.8	40	256	110	7.2
Nurses, Professional	25457	30	0.1	12	34	26	7.2
Personnel and Labor Relations Specialists	25465	117	0.5	10	129	105	15.1
Designers	25489	65	0.3	14	74	56	7.2
Contract Administrators	25551	32	0.1	27	41	23	6.5
All Other Professional Workers	29000	692	3.0	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	1,977	8.5				
Computer Programmers, Business	31001	122	0.5	15	140	104	10.1
Computer Programmers, Scientific and Technical	31002	19	0.1	24	24	14	4.3
Drafters	32003	292	1.3	12	327	257	24.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Electrical and Electronic Technicians	32004	1,200	5.1	19	1,428	972	15.8
Mechanical Engineering Technicians	32010	45	0.2	17	53	37	9.4
Tool Programmers, Numerical Control	32011	65	0.3	10	72	58	10.1
Industrial Engineering Technicians	32019	23	0.1	17	27	19	5.8
All Other Engineering Technicians	32900	126	0.5	NA	-	-	NA
Science Technicians	33000	12	0.1	37	16	8	1.4
All Other Technicians	39000	73	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	306	1.3				
Janitors, Porters, and Cleaners	41000	173	0.8	5	182	164	25.9
Guards and Doorkeepers	42000	94	0.4	15	108	80	7.9
Supervisors, Nonworking--Service Only	44014	10	*	28	13	7	4.3
All Other Service Workers	49000	29	0.1	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	12,195	52.0				
Mechanics, Maintenance	51043	146	0.6	14	166	126	12.2
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	24	0.1	19	29	19	3.6
Data Processing Machine Repairers	51079	30	0.1	43	43	17	1.4
All Other Mechanics and Repairers	51900	16	0.1	NA	-	-	NA
Truck Drivers	54000	21	0.1	14	24	18	8.6
Carpenters	55A47	24	0.1	15	28	20	6.5
Crane, Derrick and Hoist Operators	55A82	23	0.1	18	27	19	2.2
Delivery and/or Route Workers	55A87	14	0.1	30	18	10	4.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Electricians	55B12	150	0.6	12	168	132	13.7
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	200	0.8	11	222	178	16.5
Supervisors, Nonworking	55B29	783	3.3	10	861	705	45.3
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators	55B44	32	0.1	23	39	25	5.0
Industrial Truck Operators	55B57	101	0.4	14	115	87	7.9
Inspectors	55B58	886	3.8	10	975	797	29.5
Machinists	55B84	396	1.7	18	467	325	34.5
Maintenance Repairers, General Utility	55B86	106	0.5	14	121	91	10.8
Helpers, Trades	55B87	37	0.2	20	44	30	5.8
Millwrights	55B95	27	0.1	16	31	23	4.3
Plumbers and/or Pipefitters	55C30	46	0.2	17	54	38	5.0
Production Packagers, Hand or Machine	55C39	106	0.5	38	146	66	5.0
Sandblasters and/or Shotblasters	55C64	18	0.1	11	20	16	4.3
Sheet Metal Workers	55C81	76	0.3	16	88	64	7.9
Tool and Die Makers	55D23	260	1.1	9	283	237	33.8
Welders and/or Flamecutters	55D46	345	1.5	12	386	304	22.3
Drill-Press and/or Boring Machine Operators	55H95	310	1.3	9	338	282	21.6
Etchers and/or Engravers	55I35	44	0.2	36	60	28	3.6
Grinding and/or Abrading Machine Operators, Metal	55J63	657	2.8	28	341	473	25.2
Heat Treaters, Annealers, and/or Temperers	55J85	43	0.2	9	47	39	7.2
Lather and/or Turning Machine Operators, Metal	55K58	487	2.1	9	531	443	31.7
Lay-Out Markers, Metal	55K61	11	*	22	13	9	2.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Machine Tool Operators, Combination	55L01	499	2.1	14	569	429	38.8
Machine Tool Operators, Numerical Control	55L02	480	2.0	5	504	456	34.5
Machine Tool Operators, Toolroom	55L03	113	0.5	16	131	95	8.6
Machine Tool Setters, Metalworking	55L04	306	1.3	38	422	190	19.4
Milling and/or Planing Machine Operators	55L31	304	1.3	8	328	280	23.7
Molders, Machine	55L61	51	0.2	45	74	28	1.4
Patternmakers, Wood	55M10	21	0.1	45	30	12	2.9
Sawyers, Metal	55N64	29	0.1	12	32	26	5.8
Testers	55Q57	328	1.4	27	417	239	10.1
Wood working Machine Operators	55R43	200	0.8	48	296	104	2.9
Painters, Production	55R68	60	0.3	11	67	53	12.2
Punch-Press Operators, Metal	55R78	97	0.4	22	118	76	12.2
Power Brake and/or Bending Machine Operators, Metal	55S90	37	0.2	16	43	31	5.0
Machine Assemblers	55U81	786	3.4	10	865	707	20.9
Electro-Mechanical Equipment Assemblers	55U83	323	1.4	24	401	245	6.5
Electrical and Electronic Assemblers	55U84	1,718	7.3	20	2,062	1,374	9.4
All Other Assemblers	55U99	388	1.7	NA	-	-	NA
All Other Skilled Craft and Kindred Workers	59001	323	1.4	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	512	2.2	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	201	0.8	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	3,638	15.5				
Computer Operators	61105	91	0.4	8	98	84	12.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Keypunch Operators	61107	96	0.4	16	111	81	10.1
Peripheral EDP Equipment Operators	61109	50	0.2	25	62	38	3.6
All Other Office Machine Operators	61199	76	0.3	NA	-	-	NA
Accounting Clerks	61301	154	0.6	4	160	148	17.3
Bookkeepers, Hand	61307	13	0.1	38	18	8	5.0
File Clerks	61330	49	0.2	24	61	37	7.9
General Clerks, Office	61333	343	1.5	7	367	319	45.3
Order Clerks	61350	133	0.6	22	162	104	10.1
Payroll and/or Timekeeping Clerks	61351	46	0.2	12	52	40	14.4
Personnel Clerks	61352	41	0.2	11	46	36	11.5
Procurement Clerks	61355	36	0.2	12	40	32	10.1
Receptionists	61361	12	0.1	22	15	9	4.3
Secretaries	61368	855	3.6	22	1,043	667	46.0
Statistical Clerks	61374	35	0.1	13	40	30	5.8
Switchboard Operators,	61376	18	0.1	16	21	15	5.8
Switchboard Operator/ Receptionists	61377	45	0.2	11	50	40	16.5
Typists	61392	78	0.3	16	90	66	10.1
Clerical Supervisors, Office or Plant	61396	55	0.2	13	62	48	8.6
All Other Office Clerical Workers	61900	263	1.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	436	1.8	18	514	358	29.5
Shipping Packers	62004	132	0.6	16	153	111	14.4
Shipping and/or Receiving Clerks	62005	122	0.5	7	131	113	23.7
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	393	1.7	8	424	362	27.3
All Other Plant Clerical Workers	62900	66	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	260	1.1				

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Sales Representatives, Sales Agents, and/or Sales Associates	71000	258	1.1	14	294	222	24.5
All Other Sales Workers	79000	2	*	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

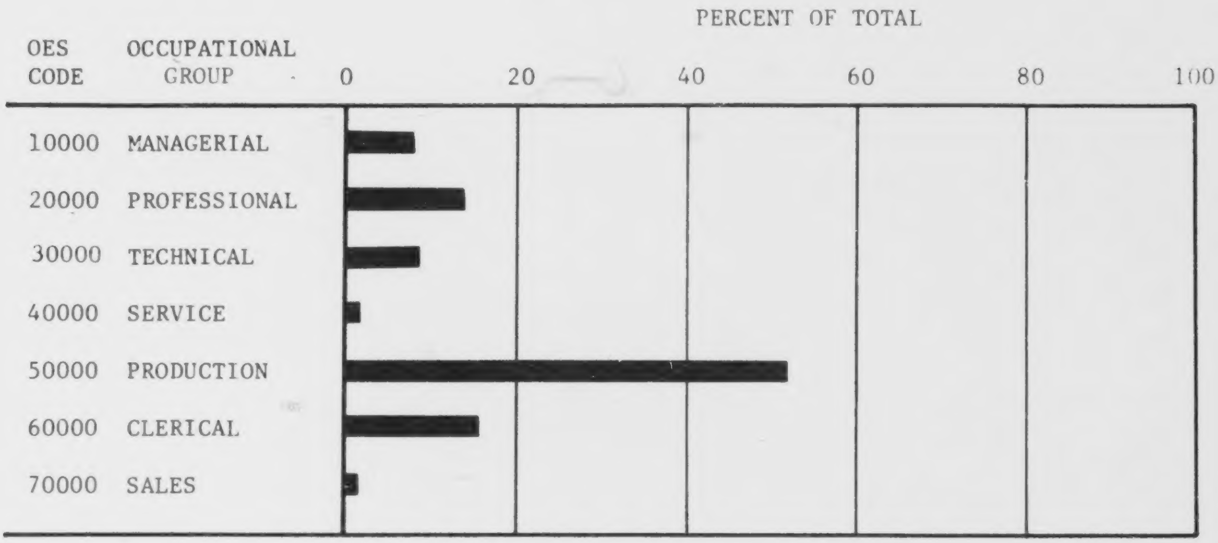
Balancing Machine Operators
Bookkeeping and/or Billing Machine Operators
Chemists
Coil Winders
Compression and/or Injection Molding Machine Operators, Plastics
Conveyor Operators or Tenders
Coremakers, Hand, Bench and/or Floor
Die Sinkers
Electroplaters
Food Service Workers
Forging Press Operators
Furnace Operators and/or Cupola Tenders
Furnace Operator Helpers or Heater Helpers
Instrument Repairers
Mechanics, Automotive
Metal Engineers
Molders, Bench and/or Floor
Oilers
Order Clerks
Painters, Maintenance
Pourers, Metal
Power Screwdriver Operators
Punch-Press Setters, Metal
Refractory Materials Repairers
Riggers
Riveters, Light
Sales Clerks
Sand Cutters, Mixers, and/or Slingers
Shakeout Workers, Foundry
Shear and/or Slitter Operators, Metal
Shear and/or Slitter Setters
Stationary Engineers
Stenographers
Systems Analysts, Scientific and Technical

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

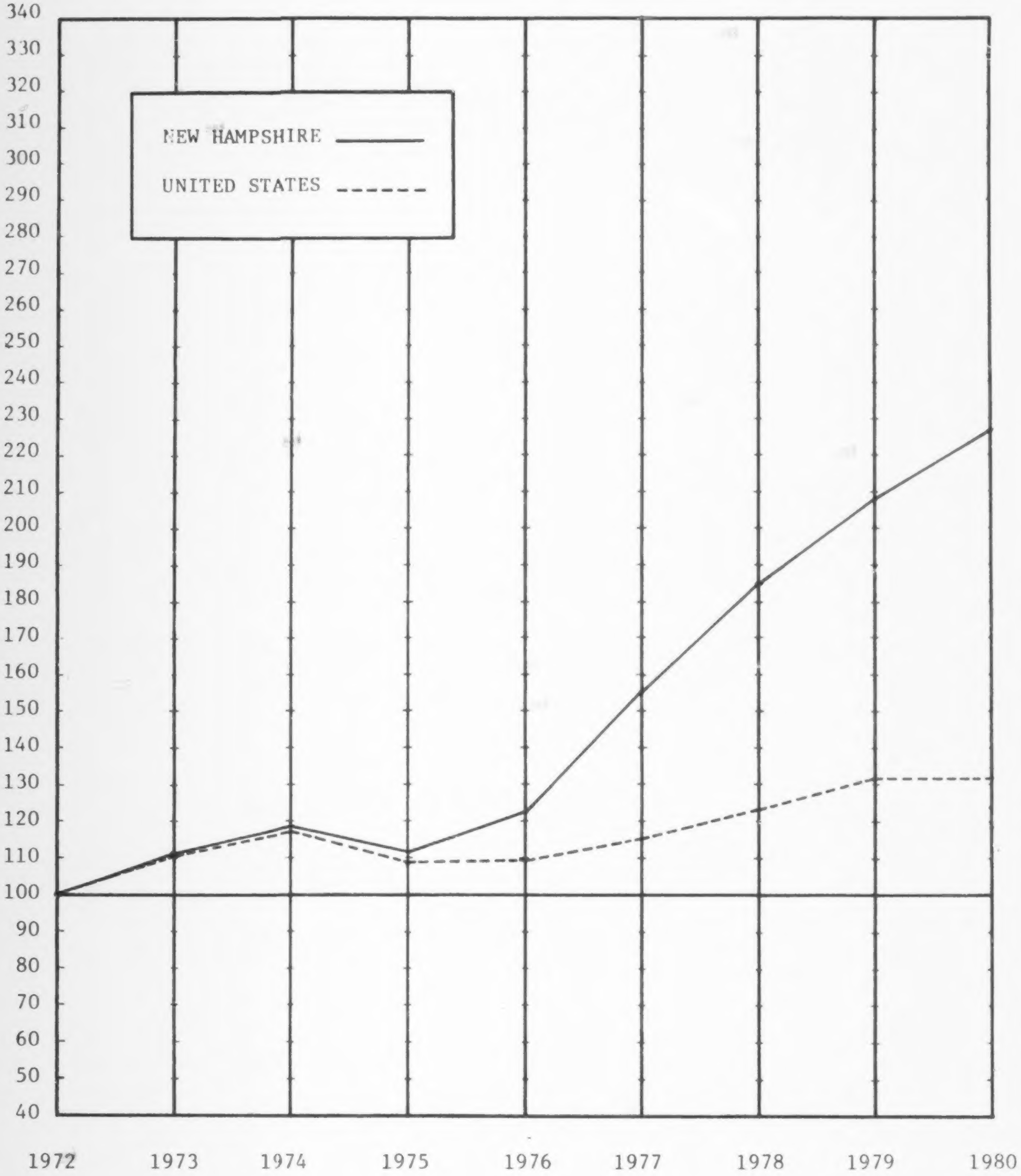
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	10.2	-	1,889.0	-
1973	11.3	10.8	2,089.0	10.6
1974	12.1	7.1	2,208.1	5.7
1975	11.4	- 5.8	2,056.8	- 6.9
1976	12.5	9.6	2,065.2	0.4
1977	15.9	27.2	2,174.7	5.3
1978	18.9	18.9	2,325.5	6.9
1979	21.2	12.2	2,481.6	6.7
1980 **	23.1	9.0	2,488.8	0.3

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

MACHINERY, EXCEPT ELECTRICAL
(SIC 35)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES
(SIC 36)

This major group includes establishments engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is also included in this group.

Manufacturers of these goods employed 19,772 wage and salary workers during the survey of June 1980. This was an increase of over 5,000 for a gain of 34 percent from the 1977 survey. Sizeable growth occurred in production occupations where 3,211 additional workers joined the rolls. Although ranked fourth in 1980 distribution, managers and officers nearly doubled in numbers with a gain of 678 or 95 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55U84	Electrical and Electronic Assemblers	4,085
2	10000	Managers and Officers	1,393
3	55R82	Coil Winders	675
4	21005	Electrical and Electronic Engineers	670
5	55B58	Inspectors	667
6	32004	Electrical and Electronic Technicians	644
7	55B29	Supervisors, Nonworking	466
8	61368	Secretaries	439
9	55R86	Coil Finishers	320
10	62003	Production Clerks and/or Coordinators	242

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	94.6
2	25300	Purchasing Agents and/or Buyers	62.2
3	61368	Secretaries	56.8
4	25401	Accountants and Auditors	54.1
	32004	Electrical and Electronic Technicians	54.1

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		19,772	100.0				
MANAGERS AND OFFICERS	10000	1,393	7.1	3	1,435	1,351	94.6
PROFESSIONAL OCCUPATIONS	20000	2,418	12.2				
Chemical Engineers	21003	22	0.1	20	26	18	10.8
Electrical and Electronic Engineers	21005	670	3.4	5	704	636	45.9
Industrial Engineers	21006	153	0.8	16	177	129	33.8
Mechanical Engineers	21008	106	0.5	10	117	95	31.1
All Other Engineers	21900	163	0.8	NA	-	-	NA
Mathematicians	22103	11	0.1	0	11	11	1.4
Chemists	22201	14	0.1	23	17	11	12.2
Physicists	22205	25	0.1	0	25	25	1.4
Systems Analysts, Business	24001	46	0.2	7	49	43	9.5
Purchasing Agents and/or Buyers	25300	160	0.8	6	170	150	62.2
Accountants and Auditors	25401	167	0.8	4	174	160	54.1
Commercial Artists	25426	23	0.1	11	26	20	6.8
Cost Estimators, Engineering	25427	39	0.2	15	45	33	18.9
Writers and/or Editors	25436	52	0.3	4	54	50	9.5
Lawyers	25446	14	0.1	22	17	11	5.4
Personnel and Labor Relations Specialists	25465	87	0.4	4	90	84	41.2
Designers	25489	22	0.1	14	25	19	14.9
Contract Administrators	25551	150	0.8	2	153	147	17.6
All Other Professional Workers	29000	494	2.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	1,330	6.7				
Computer Programmers, Business	31001	32	0.2	12	36	28	17.6
Drafters	32003	143	0.7	10	157	129	39.2
Electrical and Electronic Technicians	32004	644	3.2	9	702	586	54.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Mechanical Engineering Technicians	32010	80	0.4	5	84	76	10.8
Tool Programmers, Numerical Control	32011	22	0.1	26	28	16	10.8
Industrial Engineering Technicians	32019	23	0.1	15	26	20	17.6
All Other Engineering Technicians	32900	57	0.3	NA	-	-	NA
Science Technicians	33000	76	0.4	6	81	71	8.1
All Other Technicians	39000	253	1.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	314	1.6				
Janitors, Porters, and Cleaners	41000	181	0.9	8	195	167	51.4
Guards and Doorkeepers	42000	84	0.4	14	96	72	10.8
Supervisors, Nonworking--Service Only	44014	48	0.3	28	61	35	9.5
All Other Service Workers	49000	1	*	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	11,727	59.3				
Electric Motor Rapairers	51020	10	0.1	7	11	9	1.4
Electrical Instrument Repairers	51023	14	0.1	21	17	11	8.1
Mechanics, Maintenance	51043	176	0.9	17	206	146	25.7
All Other Mechanics and Repairers	51900	20	0.1	NA	-	-	NA
Truck Drivers	54000	16	0.1	20	19	13	16.2
Carpenters	55A47	27	0.1	14	31	23	17.6
Electricians	55B12	56	0.3	12	63	49	28.4
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers	55B19	17	0.1	46	25	9	8.1
Supervisors, Nonworking	55B29	466	2.3	9	508	424	52.7
Industrial Truck Operators	55B57	52	0.3	13	59	45	12.2
Inspectors	55B58	667	3.3	9	727	607	45.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Machinists	55B84	153	0.8	21	185	121	31.1
Maintenance Repairers, General Utility	55B86	90	0.4	16	104	76	36.5
Helpers, Trades	55B87	48	0.2	15	55	41	12.2
Millwrights	55B95	41	0.2	10	45	37	6.8
Order Fillers	55C08	108	0.5	20	130	86	8.1
Electroplaters	55C29	124	0.6	34	166	82	20.3
Production Packagers, Hand or Machine	55C39	124	0.6	11	138	110	16.2
Sheet Metal Workers	55C81	25	0.1	12	28	22	8.1
Tool and Die Makers	55D23	108	0.5	24	134	82	24.3
Welders and/or Flame-cutters	55D46	30	0.2	11	33	27	13.5
Drill-Press and/or Boring Machine Operators	55H95	179	0.9	21	217	141	20.3
Etchers and/or Engravers	55I35	33	0.2	31	43	23	10.8
Lathe and/or Turning Machine Operators, Metal	55K58	138	0.7	32	182	94	18.9
Lay-Out Markers, Metal	55K61	12	0.1	5	13	11	4.1
Machine Tool Operators, Combination	55L01	51	0.3	15	59	43	13.5
Machine Tool Operators, Numerical Control	55L02	73	0.4	24	91	55	12.2
Machine Tool Operators, Toolroom	55L03	23	0.1	47	34	12	6.8
Machine Tool Setters, Metalworking	55L04	57	0.3	11	63	51	10.8
Milling and/or Planing Machine Operators	55L31	50	0.3	34	67	33	13.5
Molders, Machine	55L61	18	0.1	21	22	14	1.4
Plater Helpers	55M32	122	0.6	18	144	100	10.8
Power Screwdriver Operators	55M52	39	0.2	4	41	37	4.1
Sawyer, Metal	55N64	10	0.1	34	13	7	6.8
Testers	55Q57	218	1.1	7	233	203	28.4
Painters, Production	55R68	43	0.2	16	50	36	20.3
Wirers, Electronic	55R74	74	0.4	32	98	50	10.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Impregnators, Electronic	55R75	17	0.1	6	18	16	8.1
Riveters, Light	55R77	12	0.1	13	14	10	4.1
Punch-Press Operators, Metal	55R78	116	0.6	22	142	90	13.5
Punch-Press Setters, Metal	55R79	41	0.2	12	46	36	12.2
Coil Winders	55R82	675	3.4	8	729	621	28.4
Coil Tapers, Hand or Machine	55R83	57	0.3	26	72	42	6.8
Encapsulators	55R84	120	0.6	22	146	94	13.5
Compression and/or Injection Molding Machine Operators, Plastics	55R85	113	0.6	18	133	93	13.5
Coil Finishers	55R86	320	1.6	14	365	275	14.9
Conveyor Operators or Tenders	55R90	22	0.1	19	26	18	1.4
Dip Platers, Non-Electrolitic	55S15	17	0.1	22	21	13	6.8
Screen or Stencil Printers and/or Setters	55T70	67	0.3	26	84	50	13.5
Machine Assemblers	55U81	42	0.2	9	46	38	5.4
Electro-Mechanical Equipment Assemblers	55U83	118	0.6	14	135	101	12.2
Electrical and Electronic Assemblers	55U84	4,085	20.6	12	4,575	3,595	45.9
All Other Assemblers	55U99	193	1.0	NA	-	-	NA
Mixers and/or Blenders, Chemicals and Chemical Products	57031	16	0.1	32	21	11	6.8
All Other Skilled Craft and Kindred Workers	59001	85	0.4	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	1,128	5.7	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	971	4.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	2,431	12.3				
Computer Operators	61105	44	0.2	10	48	40	27.0

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
		1/		2/	HIGH	LOW	
Keypunch Operators	61107	64	0.3	11	71	57	18.9
All Other Office Machine Operators	61199	42	0.2	NA	-	-	NA
Accounting Clerks	61301	206	1.0	4	214	198	50.0
Bookkeepers, Hand	61307	47	0.3	21	57	37	27.0
File Clerks	61330	97	0.5	9	106	88	17.6
General Clerks, Office	61333	86	0.4	13	97	75	33.8
Order Clerks	61350	36	0.2	20	43	29	17.6
Payroll and/or Timekeeping Clerks	61351	45	0.2	8	49	41	37.8
Personnel Clerks	61352	32	0.2	15	37	27	24.3
Procurement Clerks	61355	19	0.1	21	23	15	16.2
Receptionists	61361	22	0.1	21	27	17	16.2
Secretaries	61368	439	22	4	457	421	56.8
Switchboard Operators	61376	16	0.1	14	18	14	9.5
Switchboard Operator/ Receptionists	61377	41	0.2	11	46	36	40.5
Typists	61392	165	0.8	17	193	137	29.7
Clerical Supervisors, Office or Plant	61396	30	0.2	22	37	23	16.2
All Other Office Clerical Workers	61900	272	1.4	NA	-	-	NA
Production Clerks and/or Coordinators	62003	242	1.2	7	259	225	51.4
Shipping Packers	62004	145	0.8	21	175	115	41.9
Shipping and/or Receiving Clerks	62005	104	0.5	14	119	89	52.7
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	217	1.1	10	239	195	52.7
All Other Plant Clerical Workers	62900	20	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	159	0.8				
Sales Representatives, Sales Agents and/or Sales Associates	71000	151	0.8	11	168	134	41.9
All Other Sales Workers	79000	8	*	NA	-	-	NA

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

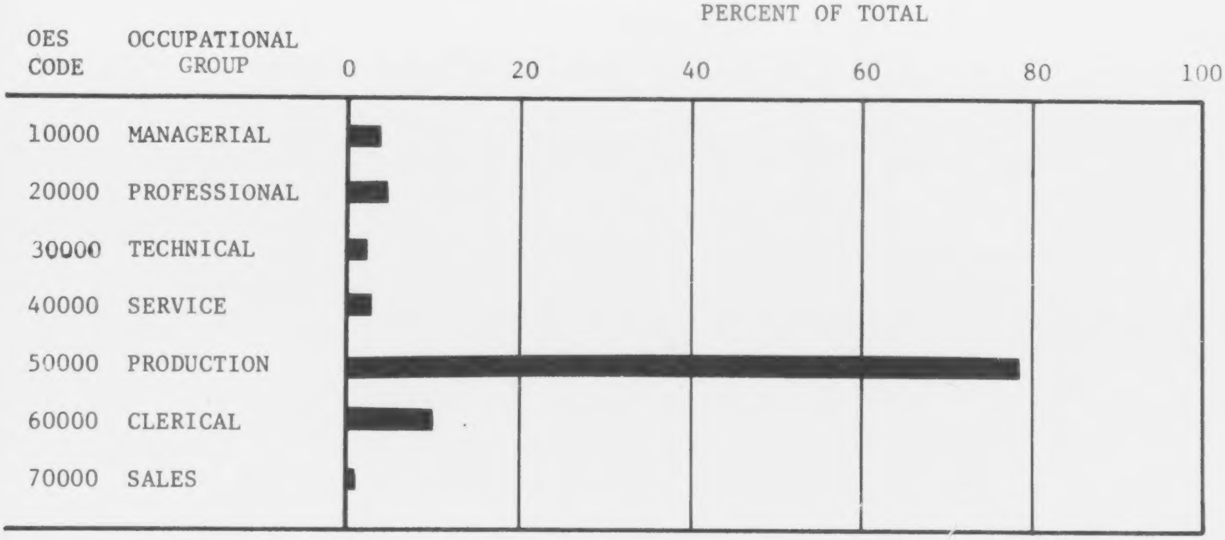
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Balancing Machine Operators
- Bookkeeping and/or Billing Machine Operators
- Computer Programmers, Scientific and Technical
- Delivery and/or Route Workers
- Die-Casting Machine Operators, Metal and/or Die-Casting Setters
- Forging Press Operators
- Furnace Operators and/or Cupola Tenders
- Furnace Operator Helpers or Heater Helpers
- Gear Cutting Gear Grinding and/or Gear Shaping Machine Operators
- Grinding and/or Abrading Machine Operators, Metal
- Heat Treaters, Annealers, and/or Temperers
- Instrument Makers and/or Assemblers
- Metal Engineers
- Molders, Bench and/or Floor
- Nurses, Professional
- Oilers
- Painters, Maintenance
- Peripheral EDP Equipment Operators
- Plumbers and/or Pipefitters
- Pourers, Metal
- Power Brake and/or Bending Machine Operators, Metal
- Sales Clerks
- Shear and/or Slitter Operators, Metal
- Shear and/or Slitter Setters
- Stationary Boiler Firers
- Statistical Clerks
- Statisticians
- Stenographers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	13.2	-	1,813.4	-
1973	14.9	12.9	1 969.5	8.6
1974	14.8	- 0.7	1,967.9	- 0.1
1975	13.0	- 12.2	1,701.6	- 13.5
1976	15.2	16.9	1,774.3	4.3
1977	15.5	2.0	1,878.0	5.8
1978	16.6	7.1	2,006.1	6.8
1979	18.6	12.0	2,124.3	5.9
1980 **	19.7	5.9	2,126.3	0.1

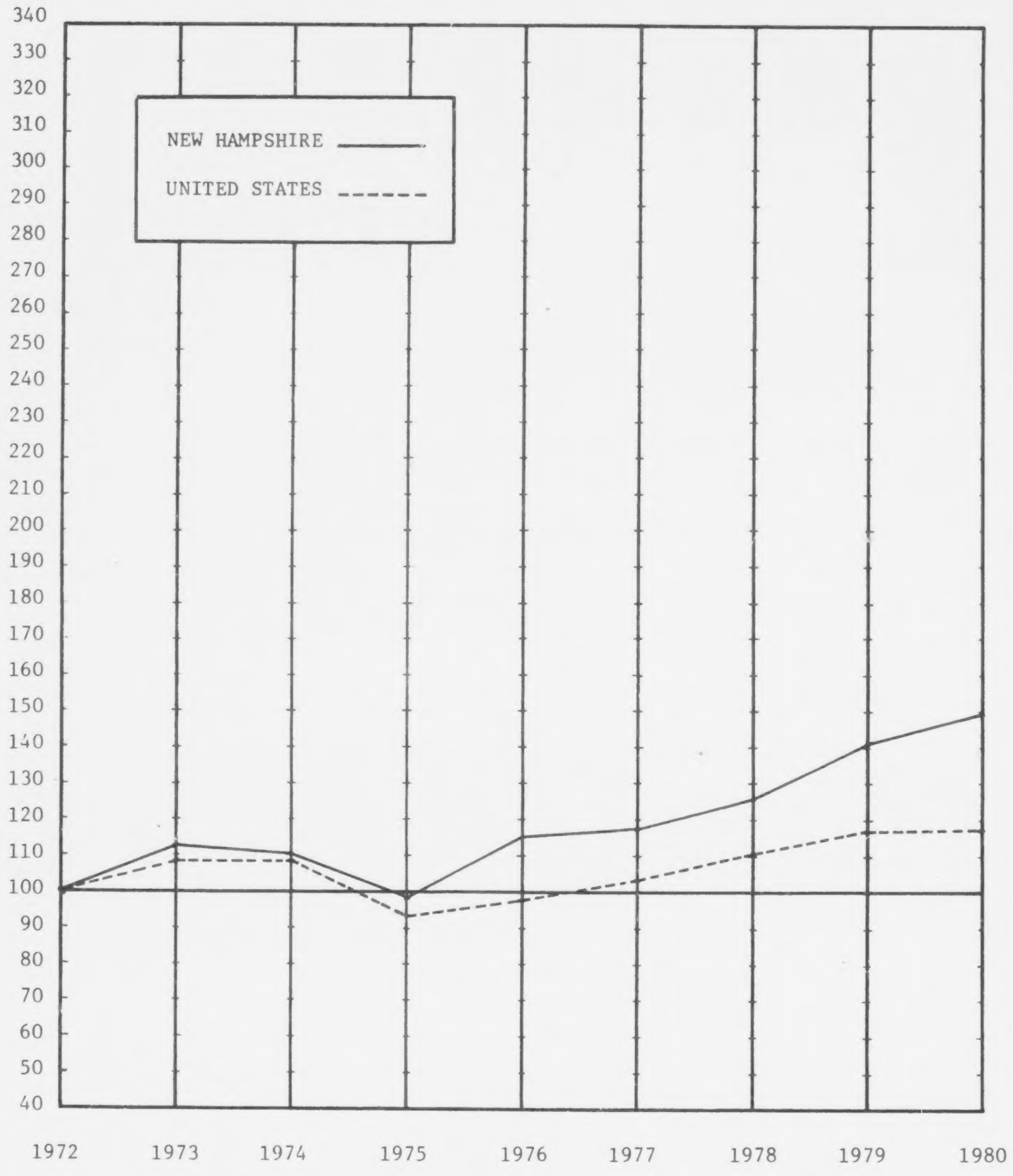
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
INSTRUMENTS AND RELATED PRODUCTS
(SIC 38)

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

During the survey month of April 1980 there were 7,668 wage and salary workers employed in the instruments and related products industries, a gain of 1,582 workers (or 30 percent) from a similar survey conducted three years ago. The largest occupational group, production and production related workers, provided 5,153 jobs or more than 67 percent of the total employment in these industries. The three leading single occupations, electrical and electronic assemblers with 900 workers, electro-mechanical equipment assemblers with 447 workers, and managers and officers with 415 employees combined to make up 23 percent of the total work force in this major industrial sector.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55U84	Electrical and Electronic Assemblers	900
2	55U83	Electro-Mechanical Equipment Assemblers	447
3	10000	Managers and Officers	415
4	21005	Electrical and Electronic Engineers	208
5	55U82	Instrument Makers and/or Assemblers	192
6	55B29	Supervisors, Nonworking	179
7	55B58	Inspectors	178
8	32004	Electrical and Electronic Technicians	145
9	55Q57	Testers	137
10	55C39	Production Packagers, Hand or Machine	121

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	95.2
2	25300	Purchasing Agents and/or Buyers	52.4
3	32003	Drafters	50.0
	62005	Shipping and/or Receiving Clerks	50.0
5	32004	Electrical and Electronic Technicians	47.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		7,668	100.0				
MANAGERS AND OFFICERS	10000	415	5.4	1	411	411	95.2
PROFESSIONAL OCCUPATIONS	20000	588	7.6				
Electrical and Electronic Engineers	21005	208	2.7	2	212	204	38.1
Industrial Engineers	21006	49	0.6	1	49	49	26.2
Mechanical Engineers	21008	46	0.6	4	48	44	26.2
All Other Engineers	21900	30	0.4	NA	–	–	NA
Systems Analysts, Electronic Data Processing	24000	26	0.3	1	26	26	9.5
Purchasing Agents and/or Buyers	25300	58	0.7	2	59	57	52.4
Accountants and Auditors	25401	87	1.1	1	88	86	26.2
Cost Estimators, Engineering	25427	17	0.2	3	18	16	14.3
Personnel and Labor Relations Specialists	25465	29	0.4	2	30	28	26.2
Designers	25489	19	0.3	0	19	19	4.8
All Other Professional Workers	29000	19	0.3	NA	–	–	NA
TECHNICAL OCCUPATIONS	30000	449	5.9				
Computer Programmers	31000	14	0.2	3	14	14	14.3
Drafters	32003	67	0.8	5	70	64	50.0
Electrical and Electronic Technicians	32004	145	1.9	3	149	141	47.6
Mechanical Engineering Technicians	32010	68	0.9	4	71	65	19.0
Industrial Engineering Technicians	32019	12	0.2	3	12	12	11.9
All Other Engineering Technicians	32900	125	1.6	NA	–	–	NA
All Science Technicians	33000	6	0.1	NA	–	–	NA
All Other Technicians	39000	12	0.2	NA	–	–	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
SERVICE OCCUPATIONS	40000	91	1.2				
Janitors, Porters, and Cleaners	41000	72	0.9	2	73	71	42.9
All Other Service Workers	49000	19	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,153	67.2				
Mechanics, Maintenance	51043	35	0.5	3	36	34	16.7
All Other Mechanics and Repairers	51900	4	0.1	NA	-	-	NA
Electricians	55B12	32	0.4	1	32	32	19.0
Supervisors, Nonworking	55B29	179	2.3	1	181	177	40.5
Industrial Truck Operators	55B57	15	0.2	0	15	15	2.4
Inspectors	55B58	178	2.3	3	183	173	45.2
Lens Grinders	55B70	85	1.1	7	91	79	11.9
Machinists	55B84	86	1.1	4	89	83	40.5
Maintenance Repairers, General Utility	55B86	48	0.6	7	51	45	31.0
Order Fillers	55C08	23	0.3	2	23	23	4.8
Production Packagers, Hand or Machine	55C39	121	1.6	1	122	120	19.0
Sewing Machine Operators, Regular Equipment -- Nongarment	55C78	104	1.4	3	107	101	4.8
Sheet Metal Workers	55C81	18	0.2	15	21	15	9.5
Tool and Die Makers	55D23	88	1.2	1	89	87	26.2
Welders and/or Flame-cutters	55D46	12	0.2	6	13	11	11.9
Opticians, Dispensing and/or Optical Mechanics	55069	50	0.7	0	50	50	7.1
Drill-Press and/or Boring Machine Operators	55H95	94	1.2	4	98	90	21.4
Grinding and/or Abrading Machine Operators, Metal	55J63	78	1.0	14	89	67	19.0

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Lathe and/or Turning Machine Operators, Metal	55K58	81	1.1	1	82	80	16.7
Machine Tool Operators, Combination	55L01	56	0.7	14	64	48	23.8
Machine Tool Operators, Toolroom	55L03	28	0.4	3	29	27	9.5
Machine Tool Setters, Metalworking	55L04	72	0.9	3	74	70	19.0
Milling and/or Planing Machine Operators	55L31	28	0.4	2	29	27	16.7
Sawyers, Metal	55N64	10	0.1	0	10	10	4.8
Testers	55Q57	137	1.8	2	140	134	31.0
Painters, Production	55R68	64	0.8	17	75	53	23.8
Die-Casting Machine Operators, Metal and/or Die-Casting Setters	55R73	14	0.2	0	14	14	2.4
Wirers, Electronic	55R74	99	1.3	12	111	87	16.7
Punch-Press Operators, Metal	55R78	88	1.2	2	90	86	21.4
Punch-Press Setters, Metal	55R79	14	0.2	6	15	13	11.9
Compression and/or Injection Molding Machine Operators, Plastics	55R85	42	0.5	3	43	41	7.1
Power Brake and/or Bending Machine Operators, Metal	55S90	11	0.1	5	12	10	4.8
Clock, Watch, and Chronometer Assemblers	55U47	95	1.2	13	107	83	7.1
Instrument Makers and/or Assemblers	55U82	192	2.5	10	211	173	14.3
Electro-Mechanical Equipment Assemblers	55U83	447	5.8	6	474	420	21.4
Electrical and Electronic Assemblers	55U84	900	11.7	6	954	846	33.3
All Other Assemblers	55U99	409	5.3	NA	-	-	NA
Mixers and/or Blenders, Chemicals and Chemical Products	57031	12	0.2	0	12	12	2.4

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Skilled Craft and Kindred Workers	59001	93	1.2	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	867	11.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	144	1.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	874	11.4				
Computer Operators	61105	18	0.2	3	19	17	16.7
Keypunch Operators	61107	28	0.4	2	29	27	16.7
All Other Office Machine Operators	61199	6	0.1	NA	-	-	NA
Stenographers	61200	21	0.3	3	22	20	11.9
Accounting Clerks	61301	55	0.7	2	56	54	40.5
Bookkeepers, Hand	61307	20	0.3	7	20	20	38.1
General Clerks, Office	61333	41	0.5	3	42	40	26.2
Order Clerks	61350	14	0.2	5	15	13	23.8
Payroll and/or Timekeeping Clerks	61351	18	0.2	2	18	18	28.6
Personnel Clerks	61352	14	0.2	3	14	14	23.8
Procurement Clerks	61355	110	1.5	1	111	109	31.0
Secretaries	61368	100	1.3	2	102	98	42.9
Switchboard Operator/ Receptionists	61377	17	0.2	4	18	16	35.7
Typists	61392	49	0.6	4	51	47	35.7
Clerical Supervisors, Office or Plant	61396	42	0.6	1	42	42	11.9
All Other Office Clerical Workers	61900	25	0.3	NA	-	-	NA
Production Clerks and/or Coordinators	62003	64	0.8	2	65	63	45.2
Shipping Packers	62004	70	0.9	2	71	69	40.5
Shipping and/or Receiving Clerks	62005	41	0.5	3	42	40	50.0
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	94	1.2	2	96	92	42.9
All Other Plant Clerical Workers	62900	27	0.4	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
SALES OCCUPATIONS	70000	98	1.3				
Sales Representatives, Sales Agents and/or Sales Associates	71000	78	1.0	2	80	76	45.2
Sales Clerks	72002	20	0.3	8	22	18	19.0

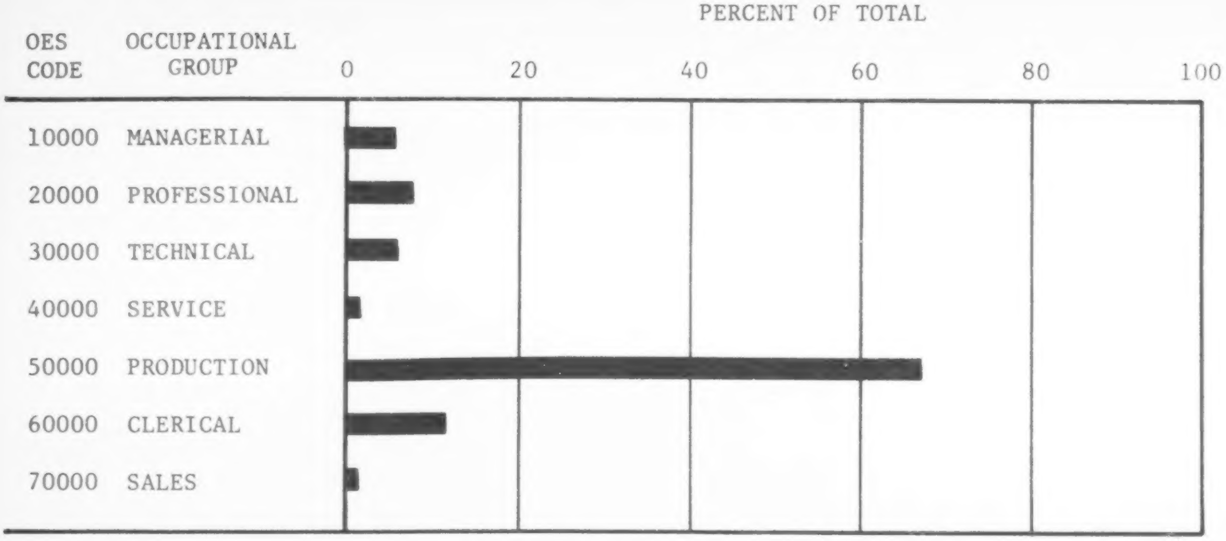
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Bookkeeping and/or Billing Machine Operators
Carpenters
Chemical Engineers
Chemical Operators A
Chemists
Delivery and/or Route Workers
Dip Platers, Non-Electrolytic
Electroplaters
File Clerks
Filers, Grinders, Buffers, Chippers, Cleaners and/or Polishers
Food Service Workers
Gear Cutting, Gear Grinding and/or Gear Shaping Machine Operators
Glass Blowers, Glassware and/or Laboratory Apparatus
Guards and Doorkeepers
Heat Treaters, Annealers, and/or Temperers
Helpers, Trades
Instrument Repairers
Lay-Out Markers, Metal
Machine Tool Operators, Control
Mechanics, Automotive
Millwrights
Nurses, Professional
Oilers
Painters, Maintenance
Peripheral EDP Equipment Operators
Plater Helpers
Plumbers and/or Pipefitters
Power Screwdriver Operators
Prosthetist-Orthotists
Receptionists
Sewing Machine Operators, Special and/or Automatic Equipment -- Nongarment
Shear and/or Slitter Operators, Metal
Shear and/or Slitter Setters
Stationary Boiler Firers
Stationary Engineers
Statistical Clerks
Switchboard Operators
Tool Programmers, Numerical Control
Truck Drivers
Writers and/or Editors

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF
MAJOR OCCUPATIONAL GROUPS

INSTRUMENTS AND RELATED PRODUCTS
(SIC 38)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*
1972-1980

INSTRUMENTS AND RELATED PRODUCTS
(SIC 38)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.6	-	516.0	-
1973	5.1	10.9	557.3	8.0
1974	5.6	9.8	592.2	6.3
1975	5.0	- 10.7	550.1	- 7.1
1976	5.5	10.0	575.3	4.6
1977	6.3	14.5	615.1	6.9
1978	6.9	9.5	653.1	6.2
1979	7.6	10.1	688.9	5.5
1980 **	7.5	- 1.3	699.7	1.6

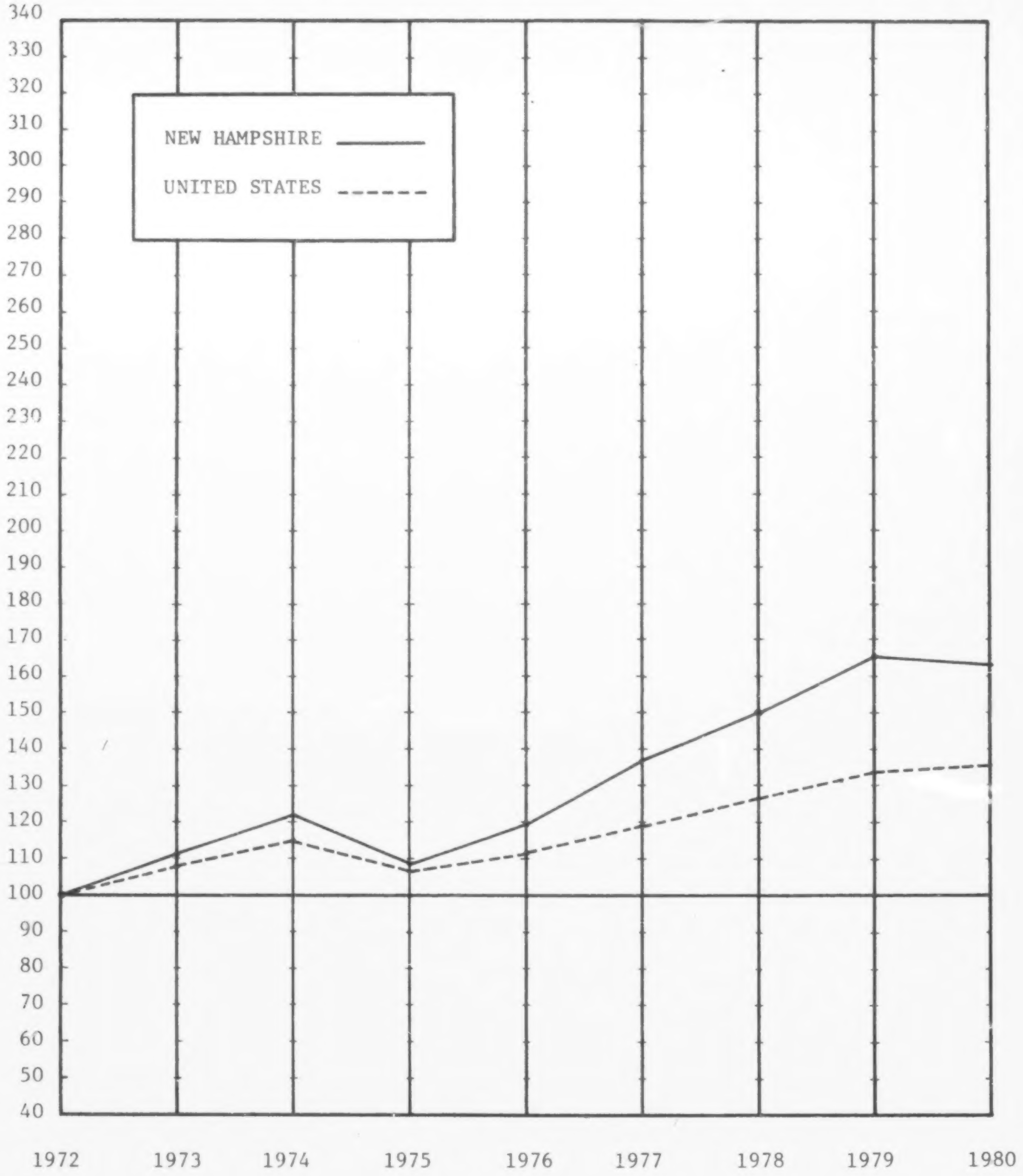
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)

This major group includes establishments primarily engaged in manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

Wage and salary workers in miscellaneous manufacturing industries totaled 2,004 during the survey of May 1980. This was an increase of 521 or 35 percent over a survey conducted three years earlier. The largest increase (276) was in production related occupations which also had the largest distribution (71 percent) of total employment. Cabinetmakers gained 82 craftsmen since 1977 for an increase of over 154 percent.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	55A38	Cabinetmakers	135
2	10000	Managers and Officers	115
3	55U00	Assemblers	95
4	55C76	Sewing Machine Operators, Regular Equipment--Garment	92
5	55C78	Sewing Machine Operators, Regular	86
6	71000	Sales Representatives, Sales Agents and/or Sales Associates	63
7	55N60	Sanders, Wood	56
8	55B29	Supervisors, Nonworking	38
9	55B58	Inspectors	34
10	55S63	Casket Coverers and/or Casket Liners	29

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	78.8
2	41000	Janitors, Porters, and Cleaners	30.3
	55U00	Assemblers	30.3
	61333	General Clerks, Office	30.3
	61368	Secretaries	30.3

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		2,004	100.0				
MANAGERS AND OFFICERS	10000	115	5.7	3	118	112	78.8
PROFESSIONAL OCCUPATIONS	20000	73	3.6				
All Engineers	21000	15	0.7	NA	-	-	NA
Accountants and Auditors	25401	24	1.2	3	25	23	27.3
Designers	25489	12	0.6	13	14	10	18.2
All Other Professional Workers	29000	22	1.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	28	1.4				
Computer Programmers	31000	11	0.6	0	11	11	3.0
All Engineering Technicians	32000	11	0.6	NA	-	-	NA
All Other Technicians	39000	6	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	29	1.5				
Janitors, Porters, and Cleaners	41000	26	1.3	3	27	25	30.3
All Other Service Workers	49000	3	0.2	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	1,431	71.4				
Mechanics, Maintenance	51043	18	0.9	0	18	18	9.1
All Other Mechanics and Repairers	51900	4	0.2	NA	-	-	NA
Truck Drivers	54000	14	0.7	5	15	13	15.2
Cabinetmakers	55A38	135	6.7	0	135	135	15.2
Supervisors, Nonworking	55B29	38	1.9	7	41	35	27.3
Inspectors	55B58	34	1.7	16	39	29	24.2
Jewelers and/or Silversmiths	55B66	10	0.5	41	14	6	6.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Maintenance Repairers, General Utility	55B86	11	0.5	8	12	10	21.2
Order Fillers	55C08	10	0.5	10	11	9	6.1
Press Operators and/or Plate Printers	55C36	14	0.7	0	14	14	6.1
Sewing Machine Operators, Regular Equipment--Garment	55C76	92	4.6	16	107	77	12.1
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	86	4.3	33	114	58	21.2
Sanders, Wood	55N60	56	2.8	0	56	56	9.1
Woodworking Machine Operators	55R43	14	0.7	0	14	14	12.1
Painters, Production	55R68	22	1.1	5	23	21	12.1
Casket Coverers, and/or Casket Liners	55S63	29	1.4	0	29	29	9.1
Assemblers	55U00	95	4.8	9	104	86	30.3
All Other Skilled Craft and Kindred Workers	59001	60	3.0	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	334	16.7	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	355	17.7	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	250	12.5				
Computer Operators	61105	13	0.7	11	14	12	15.2
Peripheral EDP Equipment Operators	61109	12	0.6	0	12	12	3.0
All Other Office Machine Operators	61199	16	0.8	NA	-	-	NA
Accounting Clerks	61301	11	0.5	4	11	11	18.2
Bookkeepers, Hand	61307	12	0.6	6	13	11	27.3
General Clerks, Office	61333	20	1.0	3	21	19	30.3
Order Clerks	61350	22	1.1	8	24	20	21.2
Secretaries	61368	22	1.1	6	23	21	30.3
Clerical Supervisors, Office or Plant	61396	20	1.0	5	21	19	18.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Office Clerical Workers	61900	40	2.0	NA	-	-	NA
Production Clerks and/or Coordinators	62003	13	0.7	11	14	12	18.2
Shipping Packers	62004	26	1.3	14	30	22	21.2
Shipping and/or Receiving Clerks	62005	14	0.7	10	15	13	24.2
All Other Plant Clerical Workers	62900	9	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	78	3.9				
Sales Representatives, Sales Agents and/or Sales Associates	71000	63	3.2	1	64	62	27.3
Sales Clerks	72002	15	0.7	17	18	12	6.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

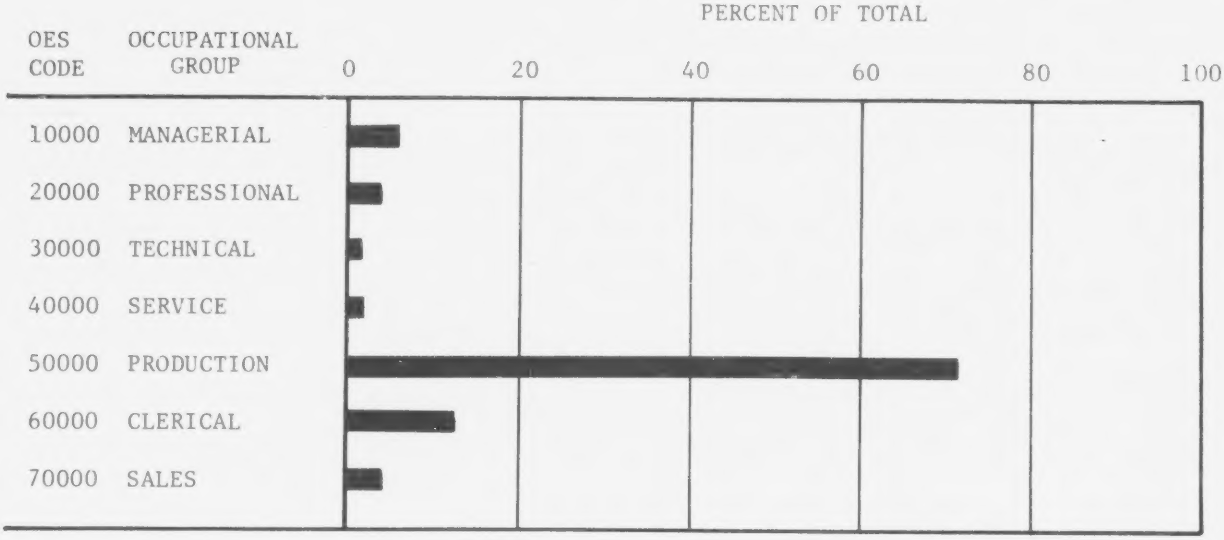
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Bench Hands, Jewelry
- Bookkeeping and/or Billing Machine Operators
- Boring Machine Operators, Wood
- Carpenters
- Casters
- Casters, Plastics
- Chemists
- Compositors and/or Typesetters
- Crane, Derrick, and Hoist Operators
- Cut-Off Saw Operators, Lumber
- Delivery and/or Route Workers
- Drafters
- Drill Press and/or Boring Machine Operators
- Electrical and Electronic Technicians
- Electricians
- Etchers and/or Engravers
- File Clerks
- Filers, Grinders, Buffers, Chippers, Cleaners, and/or Polishers
- Gluers and/or Cementers, Hand
- Grinding and/or Abrading Machine Operators, Metal
- Helpers, Trades
- Industrial Engineers
- Industrial Truck Operators
- Keypunch Operators
- Lathe and/or Turning Machine Operators, Metal
- Lathe Operators, Wood
- Machine Setters, Woodworking
- Machinists
- Mechanical Engineers
- Mechanics, Automotive
- Payroll and/or Timekeeping Clerks
- Personnel and Labor Relations Specialists
- Personnel Clerks
- Plater Helpers
- Plumbers and/or Pipefitters
- Procurement Clerks
- Production Packagers, Hand or Machine
- Punch-Press Operators, Metal
- Punch-Press Setters, Metal
- Purchasing Agents and/or Buyers
- Receptionists
- Ripsaw Operators
- Screen or Stencil Printers and/or Setters
- Sewing Machine Operators, Special and/or Automatic Equipment--Garment
- Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment
- Statistical Clerks
- Stenographers
- Stock Clerks, Stockroom, Warehouse or Storage Yard
- Switchboard Operators
- Switchboard Operator/Receptionists
- Systems Analysts, Electronic Data Processing
- Tool and Die Makers
- Typists
- Vulcanizers, Rubber Plate
- Wax Pattern Workers
- Welders and/or Flamecutters
- Wood Carving Machine Operators
- Wood Machinists

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

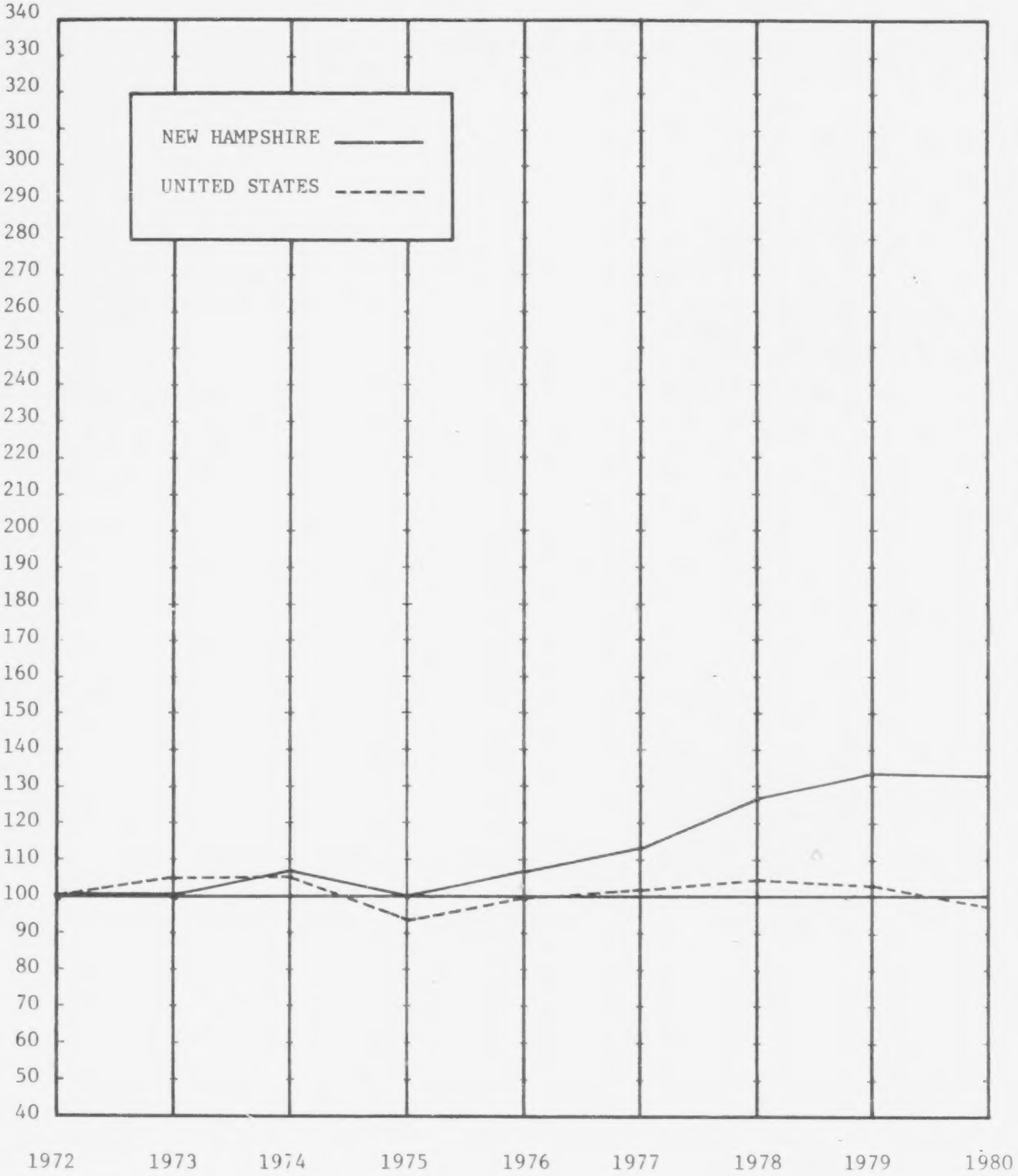
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	1.5	-	433.3	-
1973	1.5	0	454.4	4.9
1974	1.6	6.7	452.0	- 0.5
1975	1.5	- 6.3	406.8	- 10.0
1976	1.6	6.7	429.1	5.5
1977	1.7	6.3	438.4	2.2
1978	1.9	11.8	451.5	3.0
1979	2.0	5.3	445.6	- 1.3
1980 **	2.0	0	422.0	- 5.3

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)



SUMMARY

OCCUPATIONAL EMPLOYMENT

NONDURABLE GOODS MANUFACTURING

(SIC 20-23, 26-31)

There were 42,432 wage and salary workers employed in the nondurable goods manufacturing sector during the occupational survey period of the second quarter of 1980. The largest major occupational group was the production and production related jobs with 32,757 workers representing over 77 percent of the total employment. This was followed by the clerical group with 4,272 workers, or more than ten percent, and the managerial group with 1,980 employees, or almost five percent of the total employment in the nondurable goods sector. The five occupations employing the largest number of workers combined to make up almost 18 percent of the total work force in nondurable goods manufacturing.

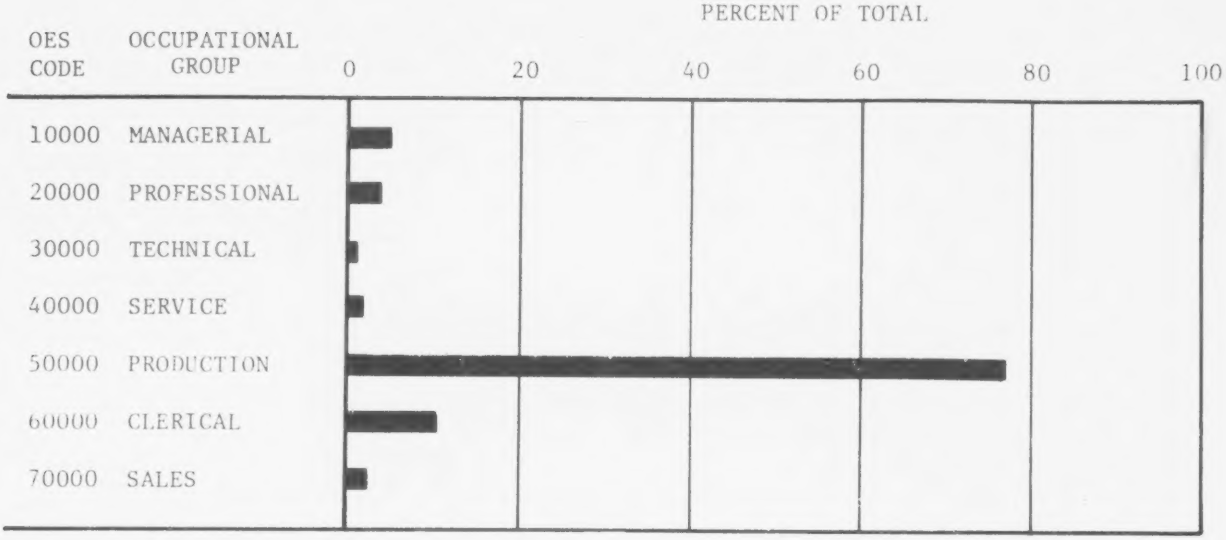
THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	10000	Managers and Officers	1,980	4.7
2	55C39	Production Packagers, Hand or Machine	1,783	4.2
3	55C76	Sewing Machine Operators, Regular Equipment - - Garment	1,382	3.3
4	55B29	Supervisors, Nonworking	1,275	3.0
5	55Q16	Stitchers, Standard Machine	1,027	2.4
6	55B62	Inspectors	883	2.1
7	71000	Sales Representatives, Sales Agents, and/or Sales Associates	804	1.9
8	55U00	Assemblers	766	1.8
9	55B86	Maintenance Repairers, General Utility	677	1.6
10	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	571	1.3
11	55C78	Sewing Machine Operators, Regular Equipment - - Nongarment	555	1.3
12	55H74	Die Cutter and/or Clicking Machine Operators	536	1.3
13	61333	General Clerks, Office	513	1.2
14	55I85	Floor Workers, Footwear	496	1.2
15	62004	Shipping Packers	486	1.1
16	51043	Mechanics, Maintenance	394	0.9
17	61368	Secretaries	380	0.9
18	41000	Janitors, Porters, and Cleaners	378	0.9
19	55B57	Industrial Truck Operators	367	0.9
20	55A87	Delivery and/or Route Workers	366	0.9

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

NONDURABLE GOODS MANUFACTURING



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

NONDURABLE GOODS MANUFACTURING

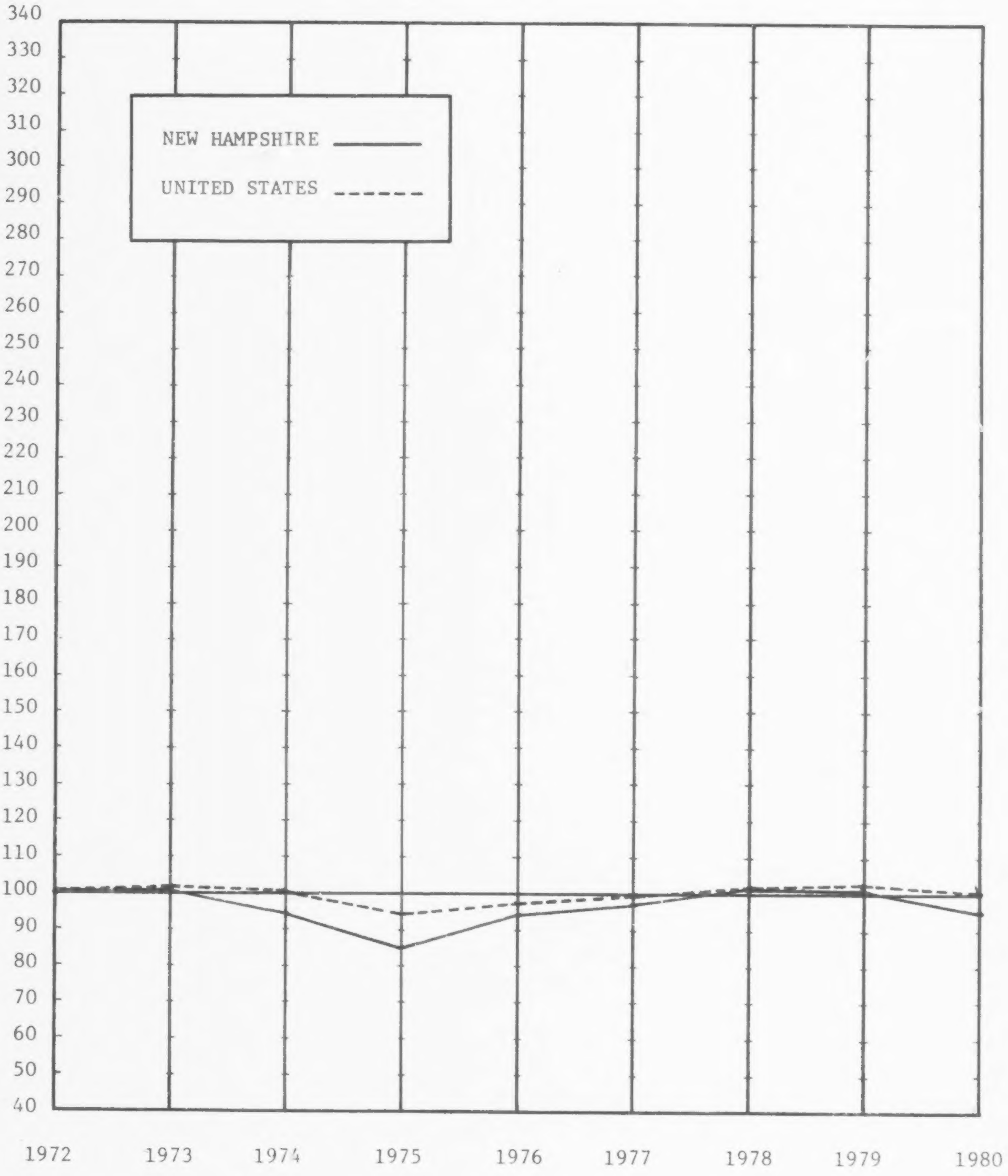
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	44.8	-	8,102.0	-
1973	45.0	0.4	8,262.0	2.0
1974	42.4	- 5.8	8,152.0	- 1.3
1975	38.4	- 9.4	7,635.0	- 6.3
1976	42.3	10.2	7,920.0	3.7
1977	43.8	3.5	8,086.0	2.1
1978	45.4	3.7	8,231.0	1.8
1979	45.4	0	8,290.0	0.7
1980**	42.7	- 5.9	8,146.0	- 1.7

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

NONDURABLE GOODS MANUFACTURING



STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		42,432	100.00
MANAGERS AND OFFICERS	10000	1,980	4.67
PROFESSIONAL OCCUPATIONS	20000	1,420	3.35
Chemical Engineers	21003	36	.08
Electrical and Electronic Engineers	21005	33	.08
Industrial Engineers	21006	177	.42
Mechanical Engineers	21008	100	.24
All Other Engineers	21900	97	.23
Chemists	22201	44	.10
All Life Scientists	22300	9	.02
Systems Analysts, Electronic Data Processing	24000	38	.09
Photographers	25200	15	.04
Purchasing Agents and/or Buyers	25300	125	.29
Accountants and Auditors	25401	157	.37
Commercial Artists	25426	40	.09
Writers and/or Editors	25436	147	.35
Nurses, Professional	25457	17	.04
Personnel and Labor Relations Specialists	25465	64	.15
Reporters and Correspondents	25476	183	.43
Designers	25489	86	.20
Estimators, Printing Services	25540	20	.05
All Other Professional Workers	29000	32	.08
TECHNICAL OCCUPATIONS	30000	396	.93
Computer Programmers	31000	60	.14
Drafters	32003	78	.18
Electrical and Electronic Technicians	32004	10	.02
Industrial Engineering Technicians	32019	10	.02
All Other Engineering Technicians	32900	97	.23
All Science Technicians	33000	50	.12
All Other Technicians	39000	91	.22
SERVICE OCCUPATIONS	40000	692	1.63
Janitors, Porters, and Cleaners	41000	378	.89
Guards and Doorkeepers	42000	104	.25

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Service Workers	43000	19	.04
Supervisors, Nonworking--Service Only	44014	67	.16
All Other Service Workers	49000	124	.29
PRODUCTION OCCUPATIONS	50000	32,757	77.20
Mechanics, Automotive	51008	43	.10
Mechanics, Maintenance	51043	394	.93
Refrigeration Mechanics and/or Air Conditioning Mechanics	51052	10	.02
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	.08
Knitting Machine Fixers	51061	34	.08
Loom Fixers	51062	96	.23
Section Repairers and Setters	51065	35	.08
Mechanics, Sewing Machine	51070	36	.08
All Other Mechanics and Repairers	51900	71	.17
Developers and/or Projection Printers	52002	12	.03
Pressers, Hand	53014	42	.10
Pressers, Machine	53015	72	.17
Truck Drivers	54000	353	.83
Carpenters	55A47	50	.12
Cooks and/or Cookers	55A79	34	.08
Crane, Derrick, and Hoist Operators	55A82	13	.03
Delivery and/or Route Workers	55A87	366	.86
Drawer-in, Hand	55A91	17	.04
Electricians	55B12	185	.44
Supervisors, Nonworking	55B29	1,275	3.00
Riggers	55B54	19	.04
Industrial Truck Operators	55B57	367	.87
Inspectors	55B58	883	2.08
Instrument Repairers	55B62	34	.08
Instructors, Apparel and Textile Machines	55B65	20	.05
Machinists	55B84	287	.68
Maintenance Repairers, General Utility	55B86	667	1.57
Helpers, Trades	55B87	175	.41
Mixers	55B93	31	.07
Millwrights	55B95	161	.38
Oilers	55C06	53	.13

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Order Fillers	55C08	331	.78
Oven Operators	55C10	17	.04
Painters, Maintenance	55C12	33	.08
Plumbers and/or Pipefitters	55C30	92	.22
Press Operators and/or Plate Printers	55C36	63	.15
Production Packagers, Hand or Machine	55C39	1,783	4.20
Scrappers and/or Strippers, Hand or Machine	55C68	24	.06
Sewing Machine Operators, Regular Equipment--Garment	55C76	1,382	3.26
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Garment	55C77	117	.28
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	555	1.31
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	180	.42
Sheet Metal Workers	55C81	33	.08
Spooler Operators, Automatic	55C88	15	.04
Stationary Boiler Firers	55C90	53	.13
Stationary Engineers	55C91	64	.15
Skivers	55D04	92	.22
Tool and Die Makers	55D23	83	.20
Welders and/or Flamecutters	55D46	64	.15
Weavers	55D48	349	.82
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	1.35
Platemakers	55D57	64	.15
Strippers, Printing and Publishing	55D58	143	.34
Camera Operators, Printing	55D59	116	.27
Trimmers, Machine	55D94	127	.30
Assemblers for Puller-Over, Hand or Machine	55E25	150	.35
Back Tenders	55E32	128	.30
Baker Helpers	55E37	135	.32
Battery Loaders	55E54	28	.07
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	.08
Beater Engineers	55E61	44	.10
Beaters	55E62	54	.13
Bed Lasters	55E63	53	.13
Blending Machine Operators	55E84	21	.05

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bobbin Winders, Machine or Sewing Machine	55E90	15	.04
Boners, Meat	55E95	14	.03
Bottom Fillers	55F03	67	.16
Buffers, Hides or Skins	55F23	39	.09
Buffers, Shoe Parts	55F24	112	.26
Bundlers	55F29	47	.11
Burlers	55F30	74	.17
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	189	.45
Casing Finishers and/or Stuffers	55F70	47	.11
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	.09
Cementers, Machine Joiner	55F91	64	.15
Chemical Operators A	55G14	26	.06
Chemical Operators B	55G15	21	.05
Perforator Operators	55G16	25	.06
Chemical Operator Helpers	55G17	45	.11
Cloth Finishing Range Tenders, Middle	55G33	45	.11
Cloth Finishing Range Operators, Chief	55G34	10	.02
Coater Operators, Off Machine	55G43	47	.11
Cobblers	55G49	54	.13
Combiner Operators	55G56	56	.13
Creelers, Yarn	55G98	42	.10
Curers, Rubber Goods	55H15	13	.03
Cutters, Portable Machine	55H25	61	.14
Cutting and Creasing Press Operators	55H28	15	.04
Cylinder Machine Tenders	55H32	52	.12
Dairy Processing Equipment Operators	55H35	19	.04
Die Cutter and/or Clicking Machine Operators	55H64	536	1.26
Dipping Machine Operators	55H76	81	.19
Doffers	55H79	60	.14
Dresser Tenders	55H90	17	.04
Dye-Range Operators and Spiral Dye-Beck Tenders	55I11	26	.06
Dye-Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	.04
Dye-Tank Tenders, Nets; Warp-Dyeing-Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	.03

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Ending Machine Operators	55I29	40	.09
Envelope Machine Operators	55I34	314	.74
Fabricators, Plastics	55I50	103	.24
Finishers, Hand	55I69	314	.74
Flamers	55I82	32	.08
Flavor Room Workers and/or Freezer Operators	55I83	11	.03
Floor Workers, Footwear	55I85	496	1.17
Folders, Machine	55I89	29	.07
Folding Machine Operators, Paper	55I93	80	.19
Fourdrinier-Machine Tenders	55J02	60	.14
Fusing Machine Operators	55J20	16	.04
Garment Repairers	55J24	12	.03
Harness Builders, Loom Changers and/or Loom Starters	55J78	19	.04
Heel Attachers	55J89	43	.10
Heel Seat Lasters, Machine	55J92	34	.08
Heel Seat Fitters, Machine	55J94	14	.03
Inkers, Hand or Machine	55K18	24	.06
Kettle Operators, Adhesive	55K34	19	.04
Knitting Machine Operators	55K46	118	.28
Lasters, Hand	55K54	36	.08
Lasting Machine Operators, Hand Method	55K55	43	.10
Tanning Liquor Makers	55K79	11	.03
Envelope Finishing Machine Operators	55K95	17	.04
Machine Setters, Paper Goods	55K98	43	.10
Meat Grinders	55L16	38	.09
Menders, Cloth	55L18	22	.05
Rubber Mill Operators	55L33	12	.03
Napper Tenders	55L73	26	.06
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	.10
Novelty Workers	55L82	10	.02
Paper Reel Operators and/or Rewinder Operators	55L97	34	.08
Patternmakers, Plastics	55M06	17	.04
Patternmakers	55M08	22	.05
Picker Tenders	55M15	35	.08
Press Operators, Meat	55M62	38	.09
Printer Slotter Operators	55M64	37	.09
Puller-Overs	55M70	14	.03
Pulp Refiner Operators	55M73	15	.04

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Pulpers	55M74	24	.06
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	.10
Repairers, Finish	55N05	141	.33
Plastics Repairers	55N06	54	.13
Rough Rounders, Machine	55N37	20	.05
Rubber Goods Cutter-Finishers	55N43	18	.04
Sample Makers	55N51	12	.03
Seam Rubbing Machine Operators	55N81	40	.09
Seasoners, Machine	55N84	13	.03
Shoe Parts Sewers, Hand	55P01	193	.46
Shank-Piece Tackers	55P05	27	.06
Shellfish Shuckers	55P15	64	.15
Side Lasters	55P21	54	.13
Slitter-Scorer-Cut-Off Operators	55P47	31	.07
Slitting Machine Operators	55P49	110	.26
Smash Hand	55P54	14	.03
Sole Levelers, Machine	55P61	27	.06
Sorters, Leather	55P63	76	.18
Spinners, Frame	55P74	238	.56
Splitting Machine Feeders	55P78	24	.06
Sprayers, Hand and/or or Machine	55P83	44	.10
Spreaders	55P84	40	.09
Stainers	55P90	18	.04
Stakers, Machine	55P91	23	.05
Still Operators, Batch or Continuous	55Q11	12	.03
Stitchers, Special Machine	55Q15	56	.13
Stitchers, Standard Machine	55Q16	1,027	2.42
Stitchers, Utility	55Q17	205	.48
Strippers, Rubber and Miscellaneous Plastics	55Q35	23	.05
Tackers, Togglers, and Pasters	55Q45	92	.22
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	.09
Taping Machine Operators	55Q51	57	.13
Testers	55Q57	155	.37
Thermolasting Machine Operators	55Q58	52	.12
Thread Trimmers	55Q62	75	.18
Toe Lasters	55Q76	18	.04
Trimmers, Plastics	55Q79	51	.12
Treers	55Q84	76	.18
Splicers	55Q92	71	.17

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Twister Tenders	55R03	40	.09
Vulcanizers, Footwear	55R16	18	.04
Warp-Tying Machine Tenders	55R24	20	.05
Wet Machine Tenders	55R35	18	.04
Winders, Paper Machine	55R37	94	.22
Winder Operators, Automatic	55R38	45	.11
Work Distributors	55R46	51	.12
Wrapping Machine Operators	55R48	38	.09
Wringer Machine Operators	55R49	34	.08
Yarn Winders	55R53	49	.12
Press Tenders, Rubber Goods	55R57	93	.22
Painters, Production	55R68	154	.36
Riveters, Light	55R77	38	.09
Compression and/or Injection Molding Machine Operators, Plastics	55R85	361	.85
Conveyor Operators or Tenders	55R90	81	.19
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	.28
Cloth Graders	55S21	23	.05
Cutting Machine Operators, Food	55S22	17	.04
Baling Machine Operators	55S25	18	.04
Setters, Plastic Molding Machine	55S28	95	.22
Punch Press Operators, Plastics	55S30	53	.13
Drier Operators, Chemicals, Plastic Resins, and Rubber	55S38	11	.03
Cannery Workers	55S47	13	.03
Chief Operators	55S53	72	.17
Waste Treatment Plant Operators, Chemicals	55S54	12	.03
Splitters, Machine	55S67	32	.08
Fasteners, Machine	55S68	81	.19
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	.63
Eyelet Machine Operators	55S70	47	.11
Molders, Shoe Parts	55S71	17	.04
Pulling and Lasting Machine Operators	55S73	50	.12
Purification Operators and/or Monomer Purification Operators	55S76	14	.03
Markers	55S77	15	.04
Cutters, Hand	55S78	151	.36
Turners	55S80	22	.05

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Folders, Hand	55S81	27	.06
Copy Markers	55T01	10	.02
Hand Compositors	55T03	98	.23
Imposers and Makeup Arrangers	55T04	24	.06
Line Casting Machine Operators	55T05	23	.05
Line Casting Machine Keyboard Operators	55T06	14	.03
Pasteup Workers	55T11	114	.27
Phototypesetting Machine Keyboard Operators	55T12	40	.09
Phototypesetting Machine Monitors	55T13	32	.08
Phototypesetter Operators	55T14	67	.16
Proofreaders, Composed Copy	55T15	86	.20
Photoengravers	55T18	25	.06
Letter Press Operators, Sheet, Roll or Web Fed	55T23	130	.31
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	.02
Press Assistants and Feeders	55T27	93	.22
Setters, Bindery Machines	55T28	32	.08
Mailers	55T31	165	.39
Equipment Cleaners, Hand	55T62	43	.10
Gluers and/or Cementers, Hand	55T65	94	.22
Cutters, Machine	55T66	361	.85
Drier Operators, Textiles and Rugs	55T69	21	.05
Screen or Stencil Printers and/or Setters	55T70	17	.04
Embossing, Stamping, and/or Marking Machine Operators	55T79	200	.47
Bookbinders, Hand	55T80	32	.08
Bookbinders, Machine	55T81	90	.21
Bindery Workers, Assembly	55T82	177	.42
Bindery Workers, Stitching	55T83	24	.06
All Other Bindery Workers	55T84	93	.22
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	.06
Extruder Operators, Plastics or Rubber	55T91	78	.18
Extruder Operator Helpers, Plastics or Rubber	55T92	29	.07
Heat Sealers	55T94	72	.17
Assemblers	55U00	766	1.81
Beamers, Hand or Machine	55V09	18	.04

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Tinters	57030	11	.03
Mixers and/or Blenders, Chemicals and Chemical Products	57031	184	.43
Blow-Molding Machine Operators	58002	103	.24
Casters, Plastics	58004	11	.03
Press Operators, Plastics	58010	64	.15
Rotation Molding Machine Operators	58011	37	.09
Vacuum Plastic Forming Machine Operators	58014	22	.05
All Other Skilled Craft and Kindred Workers	59001	459	1.08
All Other Operatives and Semiskilled Workers	59002	2,041	4.81
All Other Laborers and Unskilled Workers	59003	3,928	9.26
CLERICAL OCCUPATIONS	60000	4,272	10.07
Bookkeeping and/or Billing Machine Operators	61103	41	.10
Computer Operators	61105	62	.15
Keypunch Operators	61107	106	.25
Inserting and/or Labeling Machine Operators	61117	32	.08
All Other Office Machine Operators	61199	34	.08
Stenographers	61200	27	.06
Accounting Clerks	61301	228	.54
Bookkeepers, Hand	61307	202	.48
File Clerks	61330	39	.09
General Clerks, Office	61333	513	1.21
Order Clerks	61350	162	.38
Payroll and/or Timekeeping Clerks	61351	195	.46
Personnel Clerks	61352	42	.10
Procurement Clerks	61355	37	.09
Receptionists	61361	32	.08
Secretaries	61368	380	.89
Statistical Clerks	61374	15	.04
Switchboard Operators	61376	21	.05
Switchboard Operator/Receptionists	61377	82	.19
Typists	61392	191	.45
Clerical Supervisors, Office or Plant	61396	222	.52

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL	OES CODE	SECOND QUARTER 1980 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Circulation Clerks	61416	44	.10
Classified-Ad Clerks, Newspaper	61417	17	.04
Customer Service Representatives, Printing and Publishing	61418	34	.08
Telephone Ad-Takers, Newspaper	61419	46	.11
All Other Office Clerical Workers	61900	114	.27
Production Clerks and/or Coordinators	62003	183	.43
Shipping Packers	62004	486	1.14
Shipping and/or Receiving Clerks	62005	339	.80
Weighers, Record Keeping	62007	21	.05
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	214	.50
All Other Plant Clerical Workers	62900	111	.26
SALES OCCUPATIONS	70000	915	2.15
Sales Representatives, Sales Agents, and/or Sales Associates	71000	804	1.89
Sales Clerks	72002	101	.24
All Other Sales Workers	79000	10	.02

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FOOD AND KINDRED PRODUCTS
(SIC 20)

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum,- vegetable and animal fats and oils, and prepared feeds for animals and fowls.

During the survey month of June 1980 there were 2,937 wage and salary workers in the food and kindred products manufacturing group. This represents a decrease of 310, or a 9.5 percent loss from the survey of the same month in 1977. Almost 77 percent of the workers in 1980 were employed in production related jobs, slightly more than the earlier survey. Approximately one fourth of the production workers were employed as production packagers, hand or machine. Delivery and/or route workers constituted the next largest single occupation with 281 workers, or 12.5 percent of the production worker group.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55C39	Production Packagers, Hand or Machine	550
2	55A87	Delivery and/or Route Workers	281
3	10000	Managers and Officers	193
4	55E37	Baker Helpers	135
5	55B29	Supervisors, Nonworking	99
6	55B86	Maintenance Repairers, General Utility	88
7	54000	Truck Drivers	77
8	55P15	Shellfish Shuckers	64
9	71000	Sales Representatives, Sales Agents, and/or Sales Associates	62
10	62004	Shipping Packers	52

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	87.0
2	55A87	Delivery and/or Route Workers	50.0
	55C39	Production Packagers, Hand or Machine	50.0
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	43.5
5	61307	Bookkeepers, Hand	32.6
	61333	General Clerks, Office	32.6

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,937	100.0				
MANAGERS AND OFFICERS	10000	193	6.6	3	199	187	87.0
PROFESSIONAL OCCUPATIONS	20000	45	1.6				
All Engineers	21000	14	0.5	NA	-	-	NA
Accountants and Auditors	25401	15	0.5	4	16	14	21.7
All Other Professional Workers	29000	16	0.6	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	13	0.4				
SERVICE OCCUPATIONS	40000	28	0.9				
Janitors, Porters, and Cleaners	41000	18	0.6	12	20	16	15.2
All Other Service Workers	49000	10	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	2,257	76.9				
Mechanics, Automotive	51008	25	0.8	4	26	24	26.1
Mechanics, Maintenance	51043	40	1.4	5	42	38	17.4
Coin Machine Servicers and/or Vending Machine Repairers	51056	35	1.2	5	37	33	17.4
All Other Mechanics and Repairers	51900	9	0.3	NA	-	-	NA
Truck Drivers	54000	77	2.6	9	84	70	23.9
Cooks and/or Cookers	55A79	34	1.2	3	35	33	17.4
Delivery and/or Route Workers	55A87	281	9.6	5	295	267	50.0
Supervisors, Nonworking	55B29	99	3.4	3	102	96	21.7
Industrial Truck Operators	55B57	46	1.6	3	47	45	23.9
Maintenance Repairers, General Utility	55B86	88	3.0	2	90	86	21.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Mixers	55B93	31	1.1	6	33	29	28.3
Order Fillers	55C08	35	1.2	8	38	32	23.9
Oven Operators	55C10	17	0.6	8	18	16	13.0
Production Packagers, Hand	55C39	550	18.7	2	561	539	50.0
Stationary Engineers	55C91	10	0.3	0	10	10	2.2
Baker Helpers	55E37	135	4.6	13	153	117	8.7
Boners, Meat	55E95	14	0.5	8	15	13	4.3
Casing Finishers and/or Stuffers	55F70	47	1.6	9	51	43	4.3
Dairy Processing Equipment Operators	55H35	19	0.6	11	21	17	8.7
Flavor Room Workers and/or Freezer Operators	55I83	11	0.4	11	12	10	8.7
Meat Grinders	55L16	38	1.3	4	40	36	6.5
Novelty Workers	55L82	10	0.3	27	13	7	2.2
Press Operators, Meat	55M62	38	1.3	9	41	35	4.3
Shellfish Shuckers	55P15	64	2.2	27	81	47	6.5
Testers	55Q57	47	1.6	2	48	46	13.0
Cutting Machine Operators, Food	55S22	17	0.6	3	18	16	4.3
Cannery Workers	55S47	13	0.4	0	13	13	2.2
Equipment Cleaners, Hand	55T62	43	1.5	2	44	42	15.2
All Other Skilled Craft and Kindred Workers	59001	21	0.7	NA	-	-	NA
All Other Operatives and Semiskilled Worker	59002	156	5.3	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	207	7.0	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	303	10.3				
Keypunch Operators	61107	12	0.4	12	13	11	10.9
All Other Office Machine Operators	61199	11	0.4	NA	-	-	NA
Accounting Clerks	61301	22	0.7	9	24	20	23.9
Bookkeepers, Hand	61307	29	1.0	7	31	27	32.6
General Clerks, Office	61333	41	1.4	5	43	39	32.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Secretaries	61368	24	0.8	8	26	22	21.7
All Other Office Clerical Workers	61900	55	1.9	NA	-	-	NA
Production Clerks and/or Coordinators	62003	11	0.4	3	11	11	8.7
Shipping Packers	62004	52	1.8	10	57	47	23.9
Shipping and/or Receiving Clerks	62005	29	1.0	7	31	27	26.1
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	13	0.4	7	14	12	13.0
All Other Plant Clerical Workers	62900	4	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	98	3.3				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	62	2.1	5	65	59	43.5
Sales Clerks	72002	36	1.2	11	40	32	17.4

See page 184 for explanation of footnotes.

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

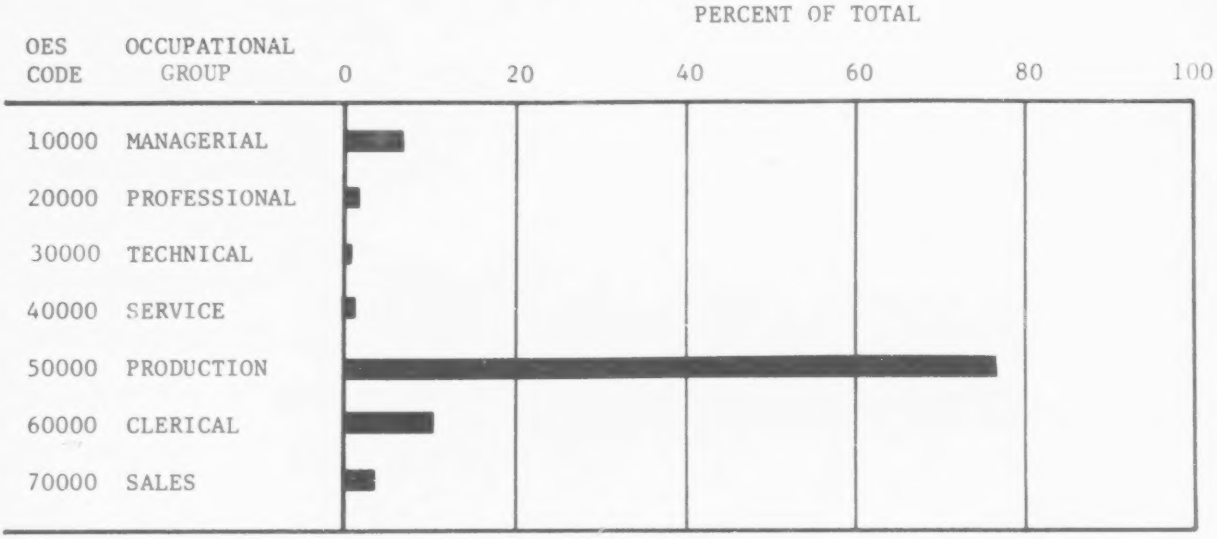
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Bakers
Biological Science Technicians
Biological Scientists
Bookkeeping and/or Billing Machine Operators
Butchers, All-Around
Carpenters
Cashiers
Chemists
Clerical Supervisors, Office or Plant
Computer Operators
Computer Programmers
Conveyor Operators or Tenders
Cooler Room Workers, Meat
Cooling Machine Operators
Depositors, Food
Dividing Machine Operators and/or Dough Brake Machine Operators
Dry Curers
Electricians
Feed Pellet Mill Operators
Fermentation Operators
File Clerks
Food Service Workers
Food Shapers, Hand
Guards and Doorkeepers
Helpers, Trades
Industrial Engineers
Inspectors
Loaders, Malt House
Machinists
Mechanical Engineers
Nurses, Professional
Oilers
Order Clerks
Painters, Maintenance
Payroll and/or Timekeeping Clerks
Personnel Clerks
Personnel and Labor Relations Specialists
Procurement Clerks
Pumpers
Purchasing Agents and/or Buyers
Refrigeration Mechanics and/or Air Conditioning Mechanics
Retort Operators
Rolling Machine Operators
Skin Peeling Machine Operators
Smokers
Statistical Clerks
Still Operators
Switchboard Operators
Switchboard Operators/Receptionists
Typists
Weighers, Record Keeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

FOOD AND KINDRED PRODUCTS

(SIC 20)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

FOOD AND KINDRED PRODUCTS

(SIC 20)

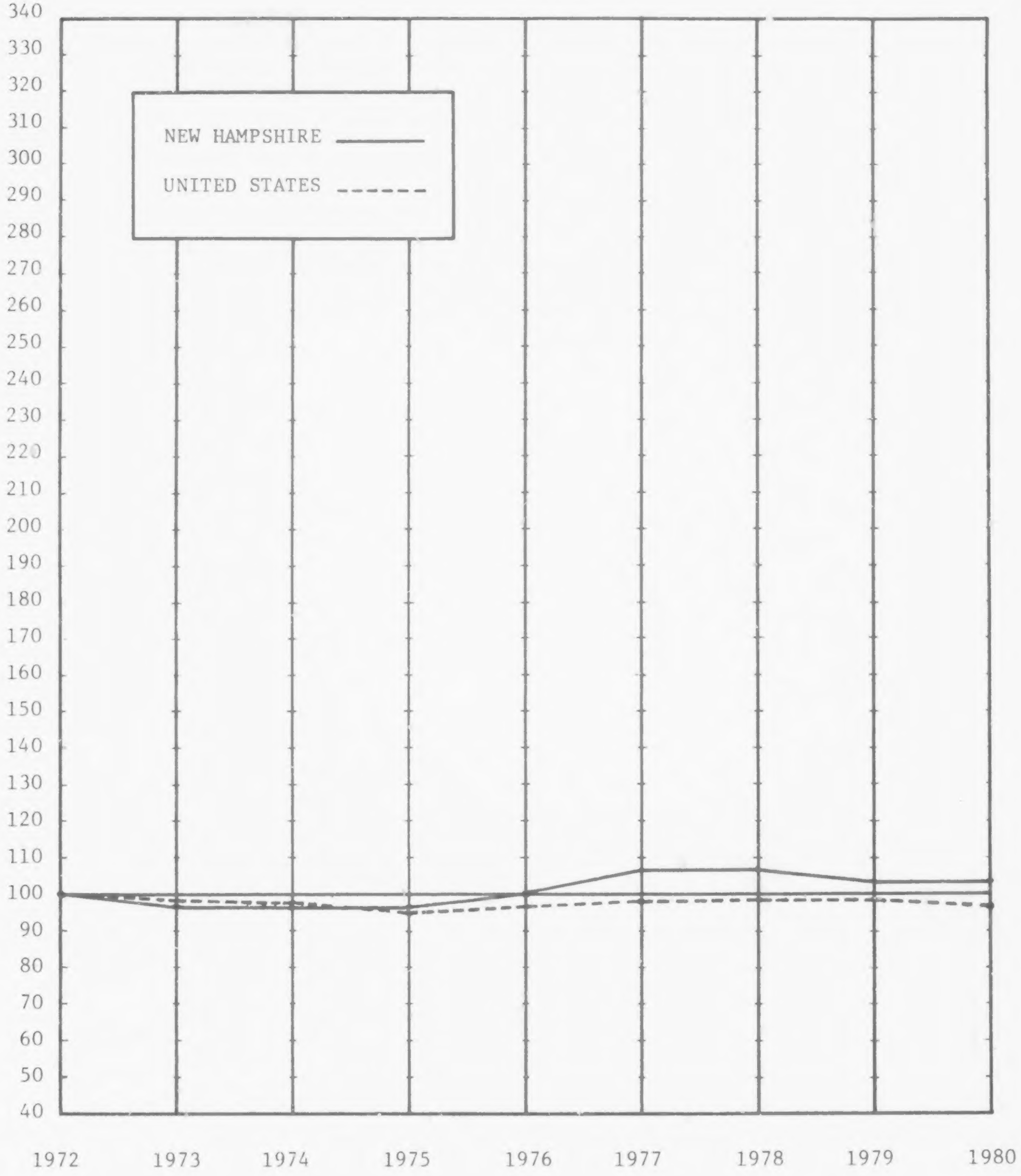
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	3.0	-	1,745.2	-
1973	2.9	- 3.3	1,714.8	- 1.7
1974	2.9	0	1,706.7	- 0.5
1975	2.9	0	1,657.5	- 2.9
1976	3.0	3.4	1,688.9	1.9
1977	3.2	6.7	1,711.0	1.3
1978	3.2	0	1,724.1	0.8
1979	3.1	- 3.1	1,728.1	0.2
1980**	3.1	0	1,690.4	- 2.2

* Nonagricultural Employment

** Employment for 1980 based on preliminary data

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

FOOD AND KINDRED PRODUCTS
(SIC 20)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
TEXTILE MILL PRODUCTS
(SIC 22)

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

During the survey month of April 1980 there were 4,885 wage and salary workers employed in the textile mill products industry. This was only a slight decrease from the same period three years ago when an estimated 4,934 workers were employed in this group. The largest group of workers in a single activity were employed as weavers followed by those employed as spinners, frame. These occupations combined to make up 12 percent of all workers in this industry. Over 81 percent of the workers were engaged in production related activities.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55D48	Weavers	349
2	55P74	Spinners, Frame	238
3	10000	Managers and Officers	203
4	55F62	Card Tenders, Comber Tenders, and/or Card Strippers	189
5	55B29	Supervisors, Nonworking	181
6	55B58	Inspectors	169
7	55C76	Sewing Machine Operators, Regular Equipment -- Garment	140
8	55T66	Cutters, Machine	116
9	51043	Mechanics, Maintenance	106
10	51062	Loom Fixers	96

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	91.4
2	62005	Shipping and/or Receiving Clerks	68.6
3	41000	Janitors, Porters, and Cleaners	62.9
	61368	Secretaries	62.9
5	55B29	Supervisors, Nonworking	54.3

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		4,885	100.0				
MANAGERS AND OFFICERS	10000	203	4.2	9	221	185	91.4
PROFESSIONAL OCCUPATIONS	20000	68	1.4				
All Engineers	21000	12	0.2	NA	-	-	NA
Accountants and Auditors	25401	27	0.6	28	35	19	31.4
All Other Professional Workers	29000	29	0.6	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	30	0.6				
All Science Technicians	33000	14	0.3	NA	-	-	NA
All Other Technicians	39000	16	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	40000	139	28				
Janitors, Porters, and Cleaners	41000	78	1.6	11	87	69	62.9
Guards and Doorkeepers	42000	12	0.2	29	15	9	8.6
All Food Service Workers	43000	2	*	NA	-	-	NA
All Other Service Workers	49000	47	1.0	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	3,991	81.7				
Mechanics, Maintenance	51043	106	2.2	7	113	99	42.9
Knitting Machine Fixers	51061	34	0.7	2	35	33	17.1
Loom Fixers	51062	96	2.0	12	108	84	31.4
Section Repairers and Setters	51065	35	0.7	7	37	33	17.1
All Other Mechanics and Repairers	51900	40	0.8	NA	-	-	NA
Truck Drivers	54000	12	0.2	37	16	8	17.1
Drawer-in, Hand	55A91	17	0.3	30	22	12	11.4
Electricians	55B12	23	0.5	9	25	21	34.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Supervisors, Nonworking	55B29	181	3.7	11	201	161	54.3
Industrial Truck Operators	55B57	15	0.3	10	16	14	17.1
Inspectors	55B58	169	3.5	18	199	139	45.7
Machinists	55B84	26	0.5	13	29	23	20.0
Maintenance Repairers, General Utility	55B86	61	1.2	16	71	51	45.7
Helpers, Trade	55B87	33	0.7	4	34	32	14.3
Millwrights	55B95	11	0.2	0	11	11	11.4
Oilers	55C06	11	0.2	31	14	8	14.3
Order Fillers	55C08	44	0.9	6	47	41	20.0
Production Packagers, Hand or Machine	55C39	31	0.6	7	33	29	20.0
Sewing Machine Operators, Regular Equipment--Garment	55C76	140	2.9	2	143	137	14.3
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Garment	55C77	28	0.6	7	30	26	8.6
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	14	0.3	26	18	10	5.7
Sewing Machine Operators, Special Equipment and/or Automatic Equipment--Nongarment	55C79	17	0.3	0	17	17	8.6
Spooler Operators, Automatic	55C88	15	0.3	0	15	15	8.6
Stationary Boiler Firers	55C90	13	0.3	0	13	13	11.4
Weavers	55D48	349	7.1	13	394	304	34.3
Battery Loaders	55E54	28	0.6	19	33	23	14.3
Beam Warper Tenders, Automatic and/or Beamers	55E58	32	0.7	20	38	26	17.1
Blending Machine Operators	55E84	21	0.4	6	22	20	14.3
Bobbin Winders, Machine or Sewing Machine	55E90	15	0.3	0	15	15	2.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Burlers	55F30	74	1.5	0	74	74	11.4
Card Tenders, Comber Tenders, and/or Card Strippers	55F62	189	3.9	5	198	180	37.1
Drawing Frame Tenders and/or Gill Box Tenders	55F87	40	0.8	23	49	31	5.7
Cloth Finishing Range Tenders, Middle.	55G33	45	1.0	0	45	45	8.6
Cloth Finishing Range Operators, Chief	55G34	10	0.2	0	10	10	5.7
Creelers, Yarn	55G98	42	0.9	22	51	33	25.7
Cutters, Portable Machine	55H25	41	0.8	46	60	22	11.4
Doffers	55H79	60	1.2	18	71	49	22.9
Dresser Tenders	55H90	17	0.3	0	17	17	11.4
Dye Range Operators and Spiral Dye Beck Tenders	55I11	26	0.5	0	26	26	5.7
Dye Reel Operators, Jiggers, and/or Padding Machine Operators	55I12	17	0.3	0	17	17	8.6
Dye Tank Tenders, Nets; Warp Dyeing Vat Tenders; and/or Knit Goods Yarn Dyers, Vat	55I13	14	0.3	39	19	9	8.6
Harness Builders, Loom Changers and/or Loom Starters	55J78	19	0.4	0	19	19	8.6
Knitting Machine Operators	55K46	87	1.8	6	92	82	20.0
Menders, Cloth	55L18	22	0.5	0	22	22	5.7
Napper Tenders	55L73	26	0.5	2	27	25	11.4
Needle Felt Making Machine Operators and/or Needle Loom Operators	55L74	43	0.9	28	55	31	5.7
Picker Tenders	55M15	35	0.7	14	40	30	11.4
Quilling Machine Operators, Automatic or Non-Automatic	55M88	44	0.9	14	50	38	17.1

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Smash, Hand	55P54	14	0.3	40	20	8	11.4
Spinners, Frame	55P74	238	4.9	2	243	233	17.1
Twister Tenders	55R03	40	0.8	24	50	30	8.6
Warp Typing Machine Tenders	55R24	20	0.4	14	23	17	25.7
Winder Operators, Automatic	55R38	45	1.0	33	60	30	14.3
Yarn Winders	55R53	49	1.0	12	55	43	11.4
Folders, Hand	55S81	21	0.4	0	21	21	2.9
Cutters, Machine	55T66	116	2.4	35	157	75	31.4
Drier Operators, Textiles and Rugs	55T69	21	0.4	16	24	18	11.4
Mixers and/or Blenders, Chemicals and Chemical Products	57031	27	0.6	18	32	22	17.1
All Other Skilled Craft and Kindred Workers	59001	40	0.8	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	498	10.2	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	394	8.1	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	434	8.9				
Keypunch Operators	61107	20	0.4	27	25	15	14.3
All Other Office Machine Operators	61199	29	0.6	NA	-	-	NA
Accounting Clerks	61301	16	0.3	7	17	15	20.0
General Clerks, Office	61333	73	1.5	17	85	61	51.4
Order Clerks	61350	16	0.3	17	19	13	14.3
Payroll and/or Timekeeping Clerks	61351	11	0.2	7	12	10	22.9
Secretaries	61368	45	1.0	13	51	39	62.9
Switchboard Operator/ Receptionists	61377	10	0.2	5	10	10	22.9
Clerical Supervisors, Office or Plant	61396	14	0.3	16	16	12	8.6
All Other Office Clerical Workers	61900	44	0.9	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Production Clerks and/or Coordinators	62003	11	0.2	3	11	11	14.3
Shipping Packers	62004	43	0.9	9	47	39	48.6
Shipping and/or Receiving Clerks	62005	43	0.9	10	47	39	68.6
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	39	0.8	5	41	37	31.4
All Other Plant Clerical Workers	62900	20	0.4	NA	-	-	NA
SALES OCCUPATIONS	70000	20	0.4				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	16	0.3	43	23	9	11.4
All Other Sales Workers	79000	4	0.1	NA	-	-	NA

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

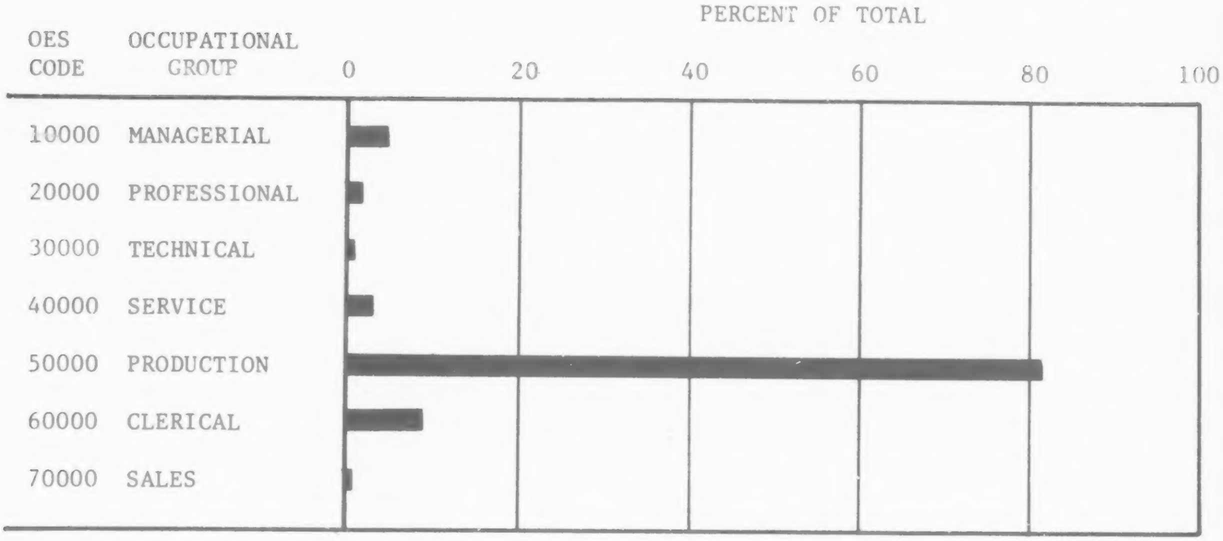
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Autoclave Operators
Beam Dyer Operators and/or Package Dyeing Machine Operators
Bleach Range Operators and/or Knit Goods Bleachers
Boarding Machine Operators Hosiery
Bobbin Sorters
Bookkeepers, Hand
Bookkeeping and/or Billing Machine Operators
Calender Operators, Cloth Pressing
Card Grinders
Carpenters
Chemists
Cloth Feeders and/or Back Tenders
Cloth or Carpet Winders
Cloth Shrinking Machine Operators
Cloth Trimmers, Machine and/or Shearing Machine Operators
Coating Machine Operators
Colorists
Computer Operators
Computer Programmers
Delivery and/or Route Workers
Designers
Drawing-In Machine Tenders
Dye Tub Operators, Random Dyers, and/or Spot Dyeing and Machine Winding Operators
Engineering Technicaians
Folding Machine Operators
Food Service Workers
Harness Placers
Industrial Engineers
Instructors, Apparel and Textile Machines
Laminating Machine Operators, Furniture
Mechanical Engineers
Mechanics, Sewing Machine
Nurses, Professional
Opener Tenders and/or Waste Machine Tenders
Painters, Maintenance
Personnel and Labor Relations Specialists
Personnel Clerks
Plumbers and/or Pipefitters
Pressers, Hand
Pressers, Machine
Procurement Clerks
Purchasing Agents and/or Buyers
Receptionists
Sales Clerks
Skein Yarn Dyers
Statistical Clerks
Systems Analysts, Electronic Data Processing
Switchboard Operators
Tenter Frame Operators
Testers
Threaders, Knit Goods
Typists
Washers, Synthetic Fibers
Weighers, Recordkeeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

TEXTILE MILL PRODUCTS

(SIC 22)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

TEXTILE MILL PRODUCTS

(SIC 22)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	7.1	-	985.7	-
1973	7.2	1.4	1,009.8	2.4
1974	6.1	- 15.3	965.0	- 4.4
1975	4.5	- 26.2	967.9	0.3
1976	5.0	11.1	918.8	- 5.1
1977	5.0	0	910.2	- 0.9
1978	5.4	8.0	899.1	- 1.2
1979	5.3	- 1.9	888.5	- 1.2
1980**	4.5	- 15.1	863.8	- 2.8

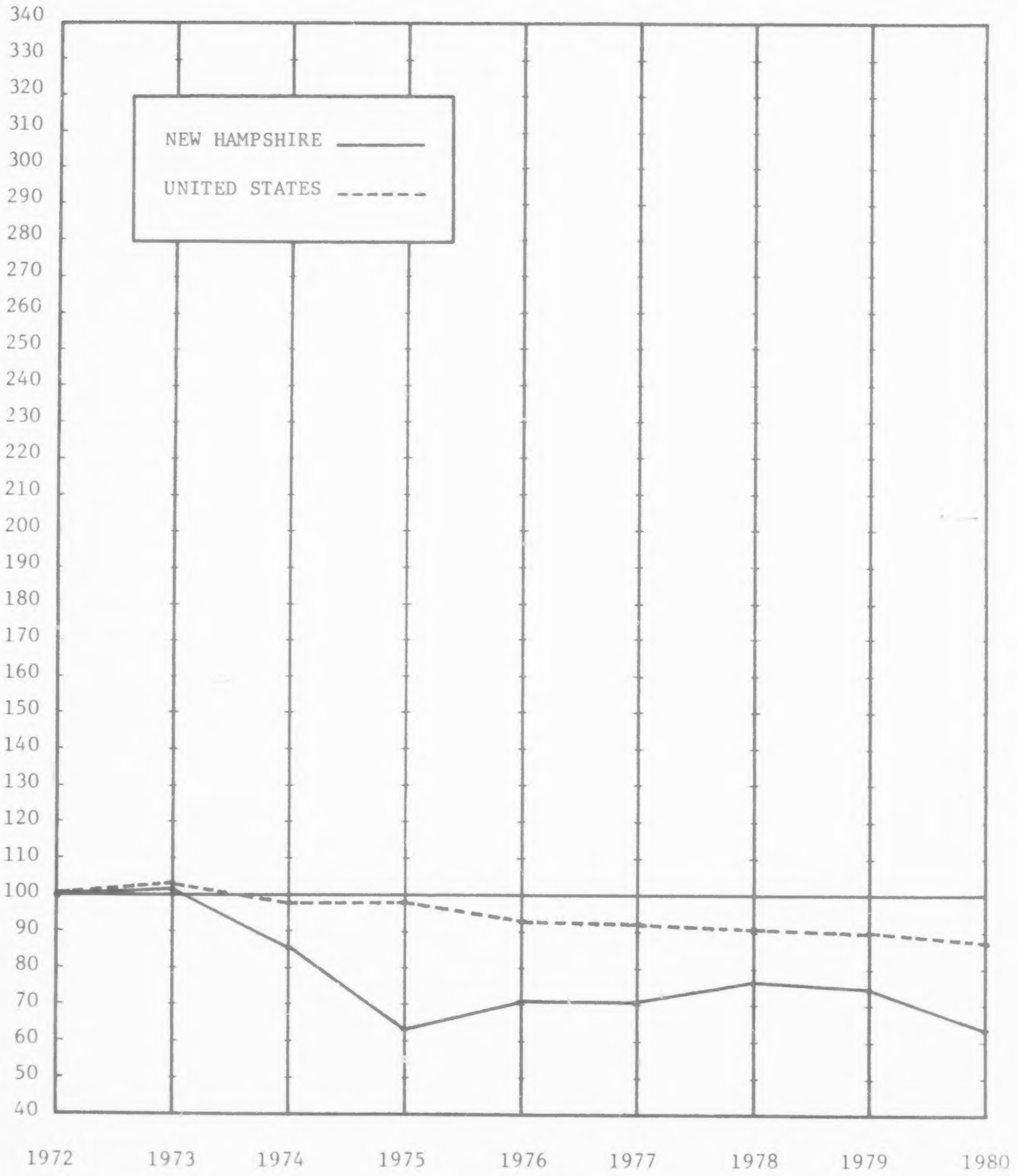
* Nonagricultural Employment

** Employment for 1980 based on preliminary data

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

TEXTILE MILL PRODUCTS

(SIC 22)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS
(SIC 23)

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

There were 2,880 wage and salary workers employed in the apparel industry during the survey month of May 1980. This represents a drop of 161 workers, or a little over five percent, from a similar survey during the same survey period of 1977. The production and production related jobs employed almost 80 percent of the total workers in this major group. The three leading production occupations, sewing machine operators (regular) with 1,242 workers, inspectors with 97 workers, and sewing machine operators (automatic) with 89 workers combined to make up almost 50 percent of the work force in the apparel industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	55C76	Sewing Machine Operators, Regular Equipment -- Garment	1,242
2	10000	Managers and Officers	145
3	55B58	Inspectors	97
4	55C77	Sewing Machine Operators, Special Equipment and/or Automatic Equipment -- Garment	89
5	55Q62	Thread Trimmers	75
6	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	57
7	55R46	Work Distributors	51
8	62004	Shipping Packers	48
9	55B29	Supervisors, Nonworking	47
	55F29	Bundlers	47

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	83.8
2	55C76	Sewing Machine Operators, Regular Equipment -- Garment	81.1
3	62004	Shipping Packers	48.6
4	55F29	Bundlers	45.9
5	41000	Janitors, Porters, and Cleaners	43.2
	51070	Mechanics, Sewing Machine	43.2

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		2,880	100.0				
MANAGERS AND OFFICERS	10000	145	5.0	2	148	142	83.8
PROFESSIONAL OCCUPATIONS	20000	40	1.4				
All Engineers	21000	7	0.2	NA	-	-	NA
Accountants and Auditors	25401	19	0.7	4	20	18	16.2
All Other Professional Workers	29000	14	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	9	0.3				
SERVICE OCCUPATIONS	40000	40	1.4				
Janitors, Porters, and Cleaners	41000	27	0.9	5	28	26	43.2
All Other Service Workers	49000	13	0.5	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	2,300	79.8				
Mechanics, Sewing-Machine	51070	31	1.1	5	33	29	43.2
All Other Mechanics and Repairers	51900	1	*	NA	-	-	NA
Pressers, Hand	53014	32	1.1	15	37	27	24.3
Pressers, Machine	53015	44	1.5	18	52	36	29.7
Truck Drivers	54000	13	0.5	6	14	12	18.9
Supervisors, Nonworking	55B29	47	1.6	9	51	43	40.5
Inspectors	55B58	97	3.3	13	110	84	29.7
Instructors, Apparel and Textile Machines	55B65	19	0.7	10	21	17	16.2
Maintenance Repairers, General Utility	55B86	10	0.3	8	11	9	16.2
Order Fillers	55C08	20	0.7	5	21	19	10.8
Production Packagers, Hand or Machine	55C39	22	0.8	20	26	18	13.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Sewing Machine Operators, Regular Equipment -- Garment	55C76	1,242	43.1	2	1,267	1,217	81.1
Sewing Machine Operators, Special Equipment and/or Automatic Equipment-- Garment	55C77	89	3.1	23	109	69	29.7
Sewing Machine Operators, Regular Equipment-- Nongarment	55C78	57	2.0	37	78	36	10.8
Bundlers	55F29	47	1.6	7	50	44	45.9
Cutters, Portable Machine	55H25	20	0.7	9	22	18	27.0
Fusing Machine Operators	55J20	16	0.6	13	18	14	16.2
Garment Repairers	55J24	12	0.4	13	14	10	13.5
Knitting Machine Operators	55K46	31	1.1	2	32	30	5.4
Patternmakers	55M08	10	0.3	7	11	9	16.2
Sample Makers	55N51	12	0.4	5	13	11	18.9
Slitting Machine Operators	55P49	12	0.4	7	13	11	10.8
Spreaders	55P48	40	1.4	7	43	37	35.1
Thread Trimmers	55Q62	75	2.6	11	83	67	29.7
Work Distributors	55R46	51	1.8	12	57	45	40.5
Markers	55S77	15	0.5	11	17	13	21.6
Cutters, Hand	55S78	26	0.9	7	28	24	29.7
Turners	55S80	22	0.8	9	24	20	27.0
Cutters, Machine	55T66	10	0.3	7	11	9	10.8
All Other Skilled Craft and Kindred Workers	59001	26	0.9	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	112	3.9	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	39	1.4	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	304	10.6				
All Office Machine Operators	61100	12	0.4	NA	-	-	NA
Accounting Clerks	61301	23	0.8	4	24	22	18.9

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
		1/		2/	HIGH	LOW	
Bookkeepers, Hand	61307	15	0.5	7	16	14	21.6
General Clerks, Office	61333	31	1.1	10	34	28	35.1
Payroll and/or Timekeeping Clerks	61351	28	1.0	5	29	27	29.7
Secretaries	61368	13	0.5	8	14	12	18.9
Typists	61392	12	0.4	0	12	12	2.7
All Other Office Clerical Workers	61900	60	2.1	NA	-	-	NA
Production Clerks and/or Coordinators	62003	13	0.5	14	15	11	21.6
Shipping Packers	62004	48	1.6	7	51	45	48.6
Shipping and/or Receiving Clerks	62005	30	1.0	8	32	28	32.4
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	11	0.4	4	11	11	10.8
All Other Plant Clerical Workers	62900	8	0.3	NA	-	-	NA
SALES OCCUPATIONS	70000	42	1.5				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	19	0.7	9	21	17	18.9
Sales Clerks	72002	23	0.8	1	23	23	8.1

* Less than 0.05 percent.

See page 184 for explanation of footnotes.

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

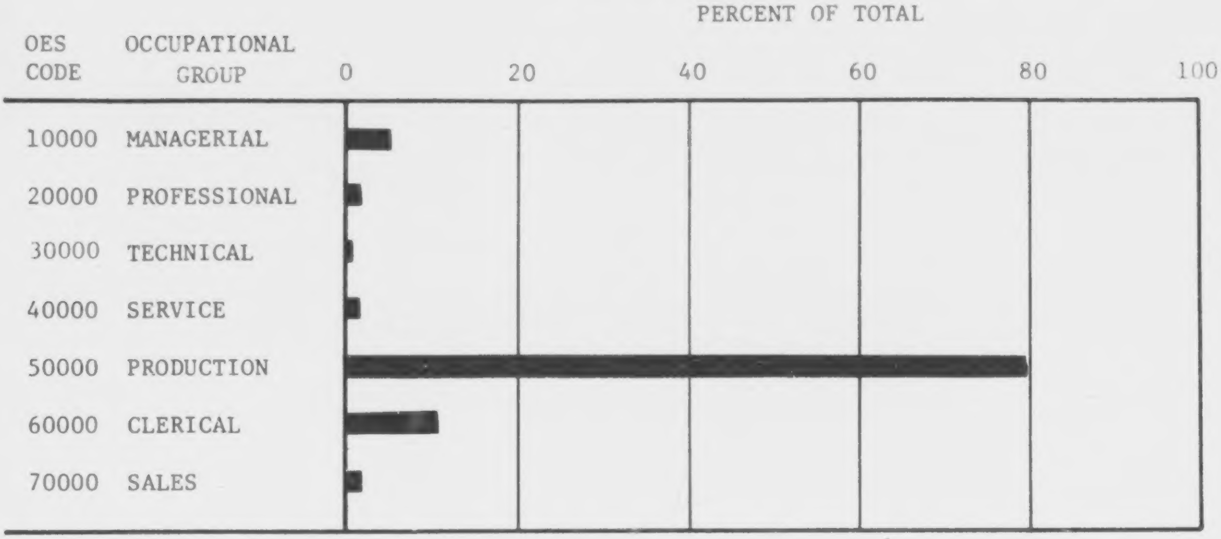
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Belt Makers, Apparel
- Bookkeeping and/or Billing Machine Operators
- Carpenters
- Clerical Supervisors, Office or Plant
- Computer Operators
- Computer Programmers
- Delivery and/or Route Workers
- Designers
- Die Cutters and/or Clicking Machine Operators
- Drapers
- Electricians
- Engineering Technicians
- File Clerks
- Folders, Hand
- Folding Machine Operators
- Food Service Workers
- Furriers
- Guards and Doorkeepers
- Hand Sewers
- Helpers, Trades
- Industrial Engineers
- Industrial Truck Operators
- Keypunch Operators
- Mechanical Engineers
- Mechanics Maintenance
- Oilers
- Order Clerks
- Painters, Maintenance
- Pattern Cutters
- Personnel and Labor Relations Specialists
- Personnel Clerks
- Procurement Clerks
- Purchasing Agents and/or Buyers
- Screen or Stenoil Printers and/or Setters
- Sewing Machine Operators, Special and/or Automatic Equipment-Nongarment
- Shade Ticket Markers
- Shapers and Pressers
- Shuttlers, Embrodery
- Soabar Operators
- Spot Cleaners
- Statistical Clerks
- Stenographers
- Supervisors, Nonworking--Service Only
- Switchboard Operators
- Switchboard Operator - Receptionists
- Systems Analysts, Electronic Data Processing
- Testers

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

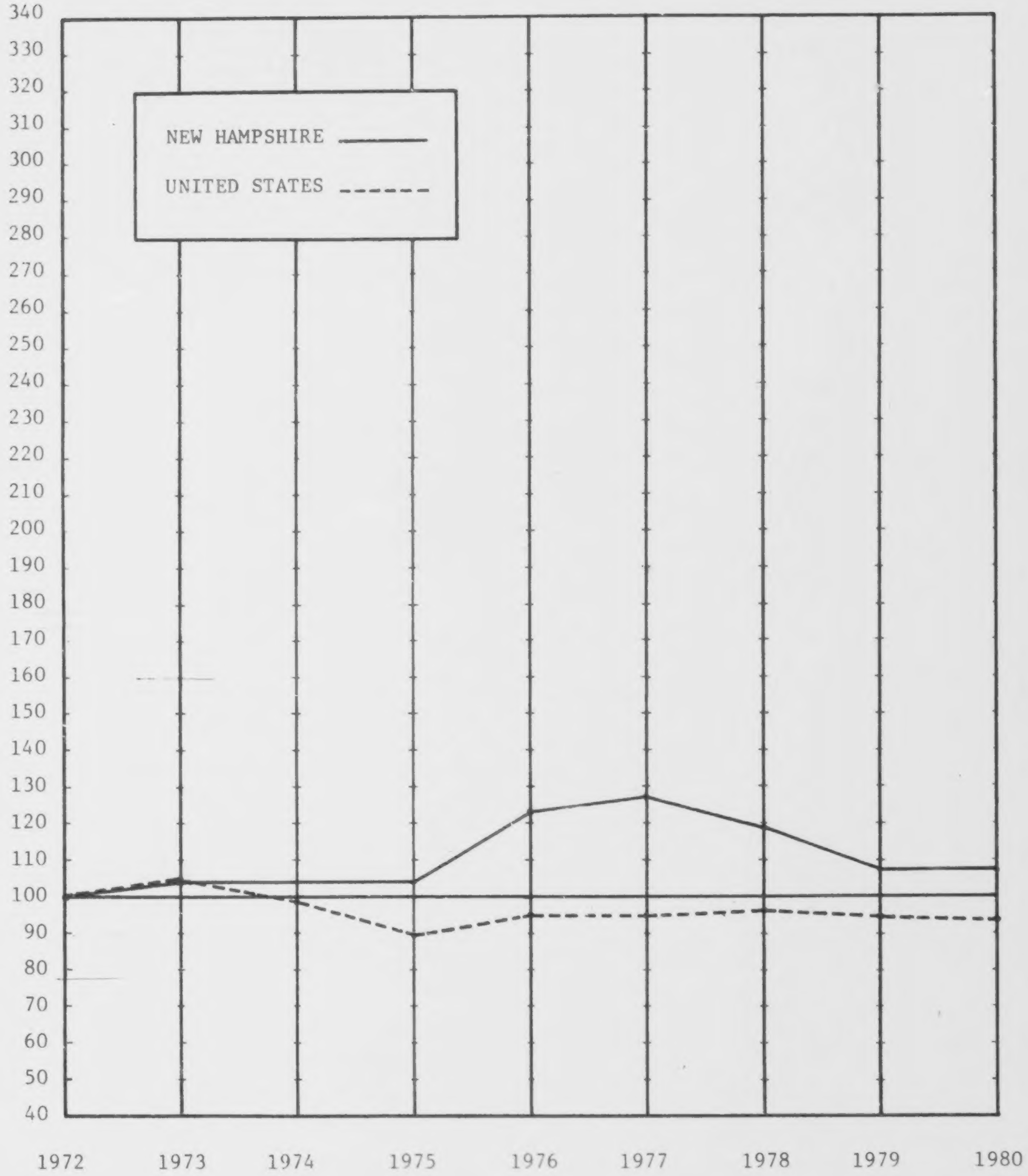
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	2.6	-	1,382.7	-
1973	2.7	3.8	1,438.1	4.0
1974	2.7	0	1,362.6	- 5.2
1975	2.7	0	1,243.3	- 8.8
1976	3.2	18.5	1,318.1	6.0
1977	3.3	3.1	1,316.3	- 0.1
1978	3.1	- 6.1	1,332.3	1.2
1979	2.8	- 9.7	1,312.5	- 1.5
1980**	2.8	0	1,296.5	- 1.2

* Nonagricultural Employment
** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)



OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
PAPER AND ALLIED PRODUCTS
(SIC 26)

This major group includes establishments primarily engaged in the manufacturing of pulps from wood and other cellulose fibers, and from rags; the manufacturing of paper and paperboard; and the manufacturing of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes.

There were 6,469 wage and salary workers employed in the paper and allied products industries during the survey month of April 1980 which represents an increase of 206 jobs or a little more than 3 percent over the estimated employment during the same month of 1977. Production and production related occupations comprised almost 82 percent of all jobs in this industry. The three leading single occupations, envelope machine operators with 314 workers, production packagers with 279 workers, and supervisors, nonworking with 219 workers combined to make up over 12 percent of the total employment in these paper industries.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1980 ESTIMATED EMPLOYMENT
1	55I34	Envelope Machine Operators	314
2	55C39	Production Packagers, Hand or Machine	279
3	55B29	Supervisors, Nonworking	219
4	55B86	Maintenance Repairers, General Utility	210
5	10000	Managers and Officers	181
6	55T66	Cutters, Machine	151
7	55B95	Millwrights	144
8	54000	Truck Drivers	143
9	55E32	Back Tenders	128
10	55R95	Fourth Hands and/or Fifth Hands, Paper Machine	119

THE EIGHT MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	90.6
2	41000	Janitors, Porters, and Cleaners	46.9
	54000	Truck Drivers	46.9
	62005	Shipping and/or Receiving Clerks	46.9
5	51043	Mechanics, Maintenance	40.6
	55B29	Supervisors, Nonworking	40.6
	61333	General Clerks, Office	40.6
	61368	Secretaries	40.6

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		6,469	100.0				
MANAGERS AND OFFICERS	10000	181	2.8	24	224	138	90.6
PROFESSIONAL OCCUPATIONS	20000	197	3.0				
Industrial Engineers	21006	79	1.2	19	94	64	28.1
Mechanical Engineers	21008	27	0.4	10	30	24	18.8
All Other Engineers	21900	16	0.2	NA	-	-	NA
Chemists	22201	11	0.2	18	13	9	15.6
Purchasing Agents and/or Buyers	25300	26	0.4	21	31	21	31.3
Accountants and Auditors	25401	22	0.3	15	25	19	28.1
Personnel and Labor Relations Specialists	25465	10	0.2	8	11	9	15.6
All Other Professional Workers	29000	6	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	80	1.2				
All Engineering Technicians	32000	10	0.2	NA	-	-	NA
All Science Technicians	33000	3	*	NA	-	-	NA
All Other Technicians	39000	67	1.0	NA	-	-	NA
SERVICE OCCUPATIONS	40000	145	2.3				
Janitors, Porters, and Cleaners	41000	38	0.6	17	44	32	46.9
Guards and Doorkeepers	42000	70	1.1	13	79	61	28.1
Supervisors, Nonworking--Service Only	44014	17	0.3	9	19	15	9.4
All Other Service Workers	49000	20	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	5,298	81.9				
Mechanics, Automotive	51008	14	0.2	0	14	14	6.3
Mechanics, Maintenance	51043	45	0.7	21	54	36	40.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Mechanics and Repairers	51900	3	*	NA	—	—	NA
Truck Drivers	54000	143	2.2	14	163	123	46.9
Carpenters	55A47	11	0.2	15	13	9	12.5
Crane, Derrick, and Hoist Operators	55A82	13	0.2	0	13	13	3.1
Electricians	55B12	72	1.1	3	74	70	28.1
Supervisors, Nonworking	55B29	219	3.4	8	237	201	40.6
Riggers	55B54	19	0.3	0	19	19	6.3
Industrial Truck Operators	55B57	97	1.5	11	108	86	34.4
Inspectors	55B58	36	0.6	14	41	31	9.4
Instrument Repairers	55B62	30	0.5	3	31	29	9.4
Machinists	55B84	34	0.5	10	37	31	12.5
Maintenance Repairers, General Utility	55B86	210	3.2	15	242	178	31.3
Helpers, Trades	55B87	72	1.1	13	81	63	15.6
Millwrights	55B95	144	2.2	3	148	140	21.9
Oilers	55C06	30	0.5	3	31	29	18.8
Order Fillers	55C08	25	0.4	28	32	18	12.5
Painters, Maintenance	55C12	18	0.3	3	19	17	9.4
Plumbers and/or Pipefitters	55C30	70	1.1	0	70	70	6.3
Production Packagers, Hand or Machine	55C39	279	4.3	18	329	229	15.6
Scrappers and/or Strippers, Hand or Machine	55C68	24	0.4	28	31	17	3.1
Stationary Boiler Firers	55C90	27	0.4	12	30	24	18.8
Stationary Engineers	55C91	49	0.8	8	53	45	18.8
Welders and/or Flamecutters	55D46	32	0.5	2	33	31	12.5
Back Tenders	55E32	128	2.0	7	137	119	34.4
Beater Engineers	55E61	44	0.7	11	49	39	25.0
Beaters	55E62	54	0.8	7	58	50	25.0
Cutting and Creasing Press Operators	55H28	15	0.2	28	19	11	3.1
Cylinder Machine Tenders	55H32	52	0.8	14	59	45	15.6

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Die Cutters and/or Clicking Machine Operators	55H64	97	1.5	18	114	80	18.8
Ending Machine Operators	55I29	40	0.6	28	51	29	3.1
Envelope Machine Operators	55I34	314	4.9	25	392	236	3.1
Folding Machine Operators, Paper	55I93	80	1.2	0	80	80	6.3
Fourdrinier Machine Tenders	55J02	60	0.9	8	65	55	15.6
Paper Reel Operators and/or Rewinder Operators	55L97	34	0.5	8	37	31	9.4
Pulp Refiner Operators	55M73	15	0.2	10	16	14	9.4
Pulpers	55M74	24	0.4	25	30	18	18.8
Slitting Machine Operators	55P49	88	1.4	18	104	72	18.8
Taping Machine Operators	55Q51	57	0.9	23	70	44	9.4
Testers	55Q57	73	1.1	4	76	70	15.6
Winders, Paper Machine	55R37	94	1.5	8	102	86	31.3
Wrapping Machine Operators	55R48	38	0.6	17	44	32	9.4
Conveyor Operators or Tenders	55R90	20	0.3	0	20	20	6.3
Fourth Hands and/or Fifth Hands, Paper Machine	55R95	119	1.9	3	123	115	15.6
Chief Operators	55S53	15	0.2	0	15	15	6.3
Cutters, Machine	55T66	151	2.3	20	181	121	15.6
Embossing, Stamping, and/or Marking Machine Operators	55T79	71	1.1	21	86	56	15.6
Mixers and/or Blenders, Chemicals and Chemical Products	57031	41	0.6	5	43	39	18.8
All Other Skilled Craft and Kindred Workers	59001	209	3.2	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	620	9.6	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Laborers and Unskilled Workers	59003	1,029	15.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	483	7.5				
Keypunch Operators	61107	11	0.2	7	12	10	12.5
All Other Office Machine Operators	61199	18	0.3	NA	-	-	NA
Accounting Clerks	61301	19	0.3	17	22	16	21.9
General Clerks, Office	61333	78	1.2	16	90	66	40.6
Order Clerks	61350	23	0.3	27	29	17	21.9
Payroll and/or Timekeeping Clerks	61351	14	0.2	26	18	10	28.1
Secretaries	61368	37	0.6	14	42	32	40.6
Switchboard Operator/ Receptionists	61377	11	0.2	28	14	8	18.8
Clerical Supervisors, Office or Plant	61396	15	0.2	6	16	14	18.8
All Other Office Clerical Workers	61900	56	0.8	NA	-	-	NA
Production Clerks and/or Coordinators	62003	31	0.5	13	35	27	28.1
Shipping Packers	62004	78	1.2	13	88	68	31.3
Shipping and/or Receiving Clerks	62005	36	0.6	27	46	26	46.9
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	44	0.7	2	45	43	12.5
All Other Plant Clerical Workers	62900	12	0.2	NA	-	-	NA
SALES OCCUPATIONS	70000	85	1.3				

* Less than 0.05 percent

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

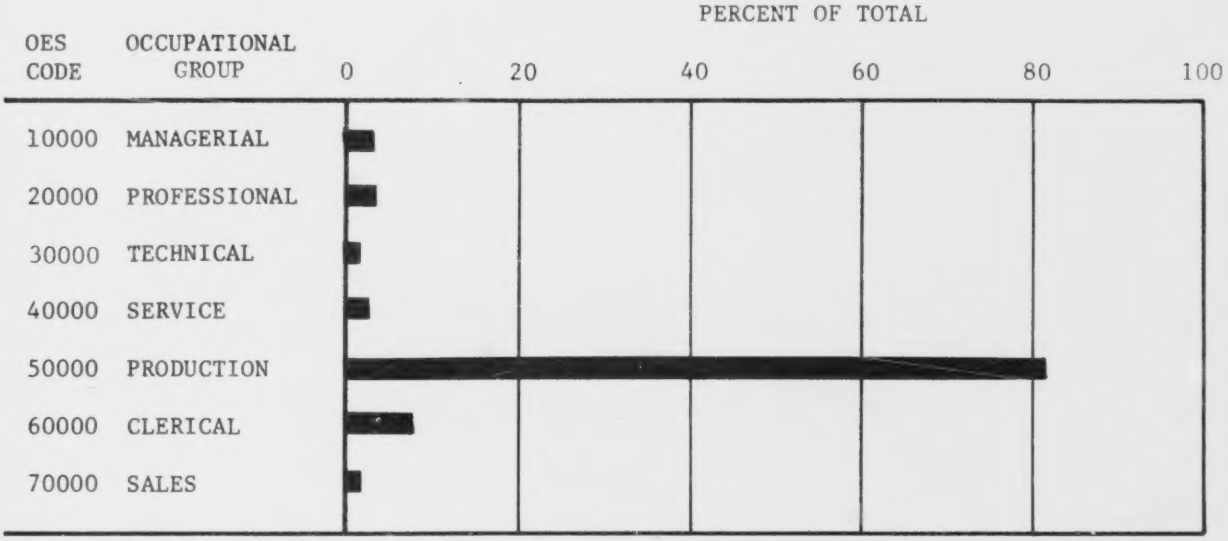
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Automatic Assembly Machine Attendants
Bleacher Operators, Pulp
Brown Stock Washers and/or Blow-Pit Operators
Bookkeeping and/or Billing Machine operators
Box Estimators, Paperboard Products
Box Makers, Paperboard
Carton Forming Machine Operators
Chemical Engineers
Chemical Operators A
Chemical Operators B
Chippers
Coating Mixer Tenders
Computer Programmers
Corrugator Knife Operators
Corrugator Operators
Decker Operators
Delivery and/or Route Workers
Die Mounters
Digester Operators
Digester Operator Helpers
Drafters
Electrical and Electronic Engineers
Evaporator Operators, Papermaking
File Clerks
Flexo-Folder-Gluer Operators
Folding Machine Feeders
Food Service Workers
Heavy Equipment Operators
Layboy Tenders
Log Inspectors, Graders, and/or Scalers
Nurses, Professional
Personnel Clerks
Printer-Slotter Feeders
Procurement Clerks
Receptionists
Recovery Operators, Papermaking
Sales Clerks
Science Technicians
Screen or Stencil Printers and/or Setters
Sheet Metal Workers
Stenographers
Supercalender Operators
Switchboard Operators
Systems Analysts, Electronic Data Processing
Tool and Die Makers
Typists
Waxing Machine Operators
Weighers, Record-Keeping

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PAPER AND ALLIED PRODUCTS

(SIC 26)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PAPER AND ALLIED PRODUCTS

(SIC 26)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	6.3	-	688.9	-
1973	6.9	9.5	704.6	2.3
1974	7.3	5.8	706.1	0.2
1975	6.0	- 17.8	642.0	- 9.1
1976	6.2	3.3	675.5	5.2
1977	6.2	0	691.6	2.4
1978	6.1	- 1.6	698.7	1.0
1979	6.4	4.9	706.7	1.1
1980**	6.3	- 1.6	693.9	- 1.8

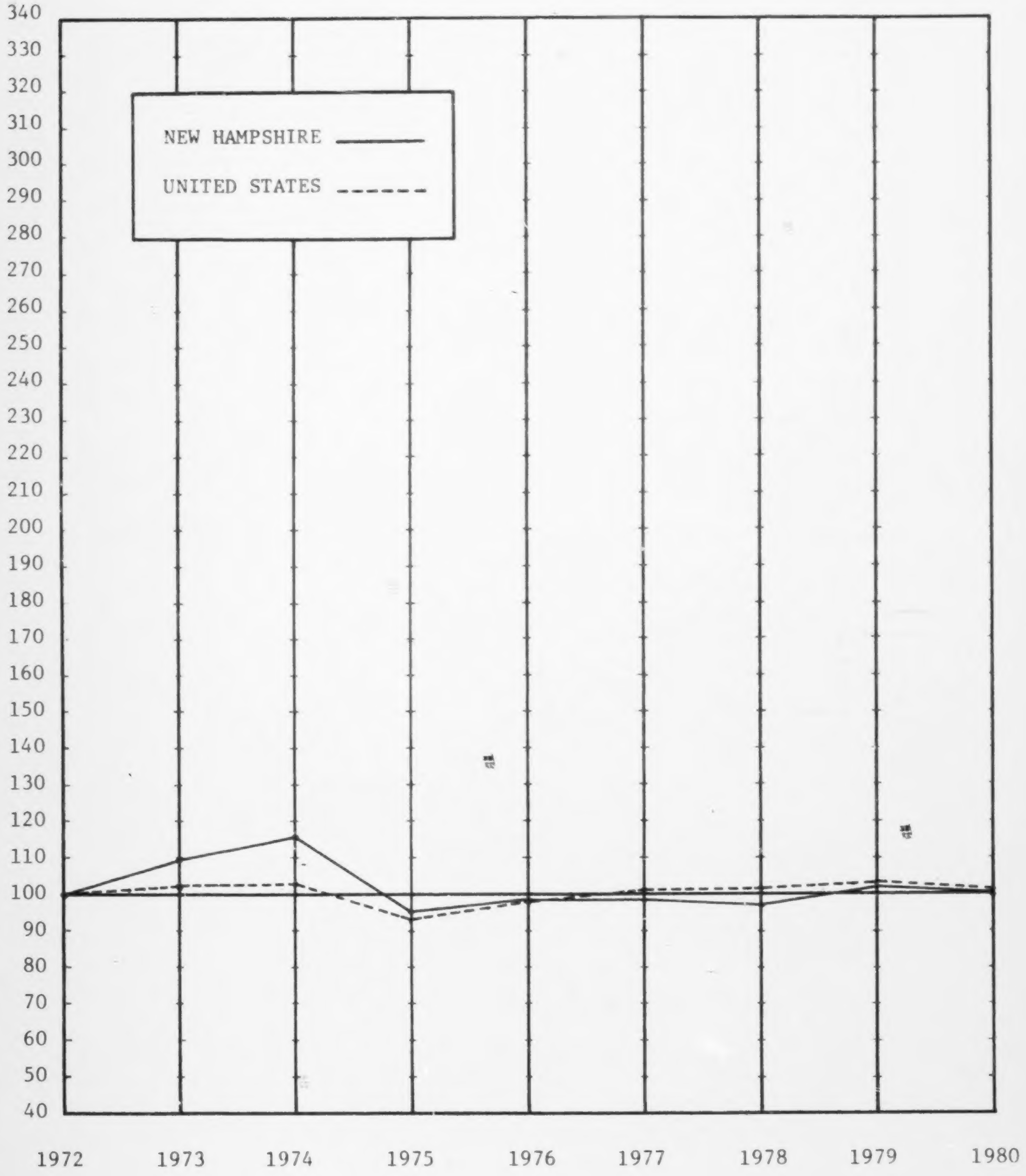
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PAPER AND ALLIED PRODUCTS

(SIC 26)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing.

There were 6,243 wage and salary workers in the printing and publishing industries during the survey month of May 1980. This represents an increase of 1,403 workers, or a 29 percent growth in employment, from the same survey period three years ago. The largest group of workers in this industry were engaged in production and production related activities and comprised over 58 percent of the total work force. The three most dominate occupations, managers and officers with 589 workers, offset lithographic press operators with 571 workers, and production packagers with 291 workers combined to make up over 23 percent of all employees in this industry.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1980 ESTIMATED EMPLOYMENT
1	10000	Managers and Officers	589
2	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	571
3	55C39	Production Packagers, Hand or Machine	291
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	279
5	25476	Reporters and Correspondents	183
6	55T82	Bindery Workers, Assembly	177
7	55T31	Mailers	165
8	25436	Writers and/or Editors	147
9	55D58	Strippers	143
10	55B29	Supervisors, Nonworking	141

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	87.9
2	55D56	Offset Lithographic Press Operators, Sheet, Roll or Web Fed	54.8
3	55D59	Camera Operators, Printing	49.2
4	71000	Sales Representatives, Sales Agents, and/or Sales Associates	44.4
5	61392	Typists	42.7

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		6,243	100.0				
MANAGERS AND OFFICERS	10000	589	9.4	3	607	571	87.9
PROFESSIONAL OCCUPATIONS	20000	485	7.7				
All Engineers	21000	4	0.1	NA	-	-	NA
Systems Analysts, Electronic Data Processing	24000	12	0.2	7	13	11	3.2
Photographers	25200	15	0.2	11	17	13	6.5
Purchasing Agents and/or Buyers	25300	12	0.2	11	13	11	8.9
Accountants and Auditors	25401	12	0.2	10	13	11	7.3
Commercial Artists	25426	40	0.6	21	48	32	6.5
Writers and/or Editors	25436	147	2.3	11	163	131	21.0
Reporters and Correspondents	25476	183	2.9	6	194	172	20.2
Designers	25489	11	0.2	16	13	9	4.0
Estimator, Printing Services	25540	20	0.3	13	23	17	7.3
All Other Professional Workers	29000	29	0.5	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	72	1.2				
Computer Programmers	31000	17	0.3	28	22	12	7.3
Drafters	32003	43	0.7	16	50	36	12.1
Electrical and Electronic Technicians	32004	10	0.2	39	14	6	2.4
All Other Technicians	39000	2	*	NA	-	-	NA
SERVICE OCCUPATIONS	40000	126	2.0				
Janitors, Porters, and Cleaners	41000	67	1.1	6	71	63	23.4
All Other Service Workers	49000	59	0.9	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
PRODUCTION OCCUPATIONS	50000	3,631	58.2				
Mechanics, Maintenance	51043	39	0.6	2	40	38	4.8
All Other Mechanics and Repairers	51900	11	0.2	NA	-	-	NA
Developers and/or Projection Printers	52002	12	0.2	8	13	11	4.0
Truck Drivers	54000	26	0.4	6	28	24	6.5
Carpenters	55A47	10	0.2	16	12	8	4.8
Delivery and/or Route Workers	55A87	58	0.9	11	64	52	18.5
Electricians	55B12	19	0.3	3	20	18	4.8
Supervisors, Nonworking	55B29	141	2.3	5	148	134	21.8
Industrial Truck Operators	55B57	48	0.8	3	49	47	5.6
Inspectors	55B58	23	0.4	2	23	23	5.6
Maintenance Repairers, General Utility	55B86	17	0.3	8	18	16	5.6
Helpers, Trades	55B87	14	0.2	17	16	12	2.4
Order Fillers	55C08	19	0.3	10	21	17	3.2
Production Packagers, Hand or Machine	55C39	291	4.7	5	306	276	8.1
Offset Lithographic Press Operators, Sheet, Roll or Web Fed	55D56	571	9.1	2	582	560	54.8
Platemakers	55D57	64	1.0	7	68	60	20.2
Strippers	55D58	143	2.3	7	153	133	31.5
Camera Operators, Printing	55D59	116	1.9	6	123	109	49.2
Copy Markers	55T01	10	0.2	17	12	8	4.8
Hand Compositors	55T03	98	1.6	16	114	82	26.6
Imposers and Makeup Arrangers	55T04	24	0.4	16	28	20	8.9
Linecasting Machine Operators	55T05	23	0.4	21	28	18	7.3
Linecasting Machine Keyboard Operators	55T06	14	0.2	28	18	10	4.8
Pasteup Workers	55T11	114	1.8	6	121	107	17.7

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
		1/		2/			
Phototypesetting Machine Keyboard Operators	55T12	40	0.6	11	44	36	6.5
Phototypesetting Machine Monitors	55T13	32	0.5	17	37	27	4.8
Phototypesetter Operators	55T14	67	1.1	13	76	58	8.9
Proofreaders, Composed Copy	55T15	86	1.4	7	92	80	29.0
Photoengravers	55T18	25	0.4	31	33	17	5.6
Letter Press Operators Sheet, Roll or Web Fed	55T23	130	2.1	6	138	122	19.4
Letterset Press Operators, Sheet, Roll or Web Fed	55T24	10	0.2	0	10	10	1.6
Press Assistants and Feeders	55T27	93	1.5	6	99	87	14.5
Setters, Bindery Machines	55T28	32	0.5	11	36	28	10.5
Mailers	55T31	165	2.6	3	170	160	7.3
Cutters, Machine	55T66	46	0.7	5	48	44	9.7
Bookbinders, Hand	55T80	32	0.5	7	34	30	4.8
Bookbinders, Machine	55T81	90	1.4	5	94	86	14.5
Bindery Workers Assembly	55T82	177	2.8	7	189	165	21.0
Bindery Workers, Stitching	55T83	24	0.4	10	26	22	7.3
All Other Bindery Workers	55T84	93	1.5	NA	-	-	NA
All Other Skilled Craft and Kindred Workers	59001	160	2.6	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	240	3.8	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	184	2.9	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	1,042	16.7				
Bookkeeping and/or Billing Machine Operators	61103	14	0.2	12	16	12	6.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Computer Operators	61105	13	0.2	17	15	11	4.0
Keypunch Operators	61107	16	0.3	8	17	15	3.2
Inserting and/or Labeling Machine Operators	61117	32	0.5	6	34	30	3.2
All Other Office Machine Operators	61199	7	0.1	NA	-	-	NA
Stenographers	61200	10	0.2	32	13	7	1.6
Accounting Clerks	61301	50	0.8	15	58	42	21.0
Bookkeepers, Hand	61307	90	1.4	8	97	83	40.3
File Clerks	61330	22	0.4	20	26	18	6.5
General Clerks, Office	61333	105	1.7	13	119	91	31.5
Order Clerks	61350	33	0.5	13	37	29	6.5
Payroll and/or Timekeeping Clerks	61351	15	0.2	8	16	14	10.5
Secretaries	61368	109	1.7	8	118	100	41.1
Switchboard Operator/ Receptionists	61377	15	0.2	11	17	13	9.7
Typists	61392	140	23	7	150	130	42.7
Clerical Supervisors, Office or Plant	61396	27	0.4	12	30	24	8.9
Circulation Clerks	61416	44	0.7	18	52	36	8.9
Classified Ad Clerks, Newspaper	61417	17	0.3	19	20	14	4.8
Customer Service Representatives, Printing and Publishing	61418	34	0.6	6	36	32	7.3
Telephone Ad-Taker, Newspaper	61419	46	0.7	6	49	43	6.5
All Other Office Clerical Workers	61900	34	0.6	NA	-	-	NA
Production Clerks and/or Coordinators	62003	31	0.5	14	35	27	8.1
Shipping Packers	62004	38	0.6	7	41	35	4.8
Shipping and/or Receiving Clerks	62005	83	1.3	10	91	75	29.0
All Other Plant Clerical Workers	62900	17	0.3	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
SALES OCCUPATIONS	70000	298	4.8				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	279	4.5	6	296	262	44.4
All Other Sales Workers	79000	19	0.3	NA	-	-	NA

* Less than 0.05 percent.

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

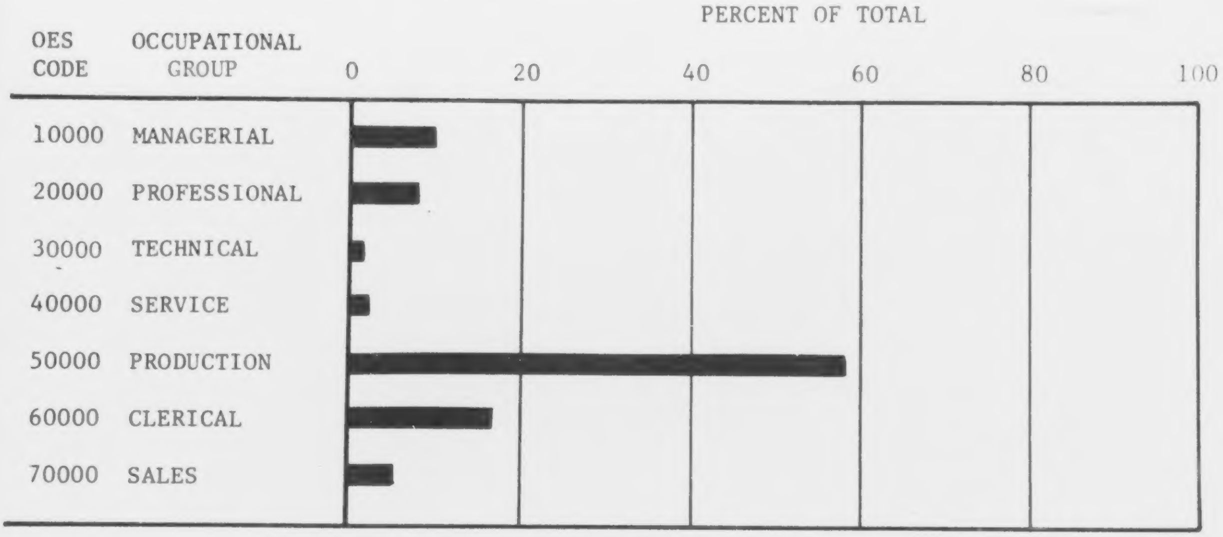
Addressing Machine Operators
Cashiers
Conveyor Operators or Tenders
Flexographic Press Operators
Food Service Workers
Guards and Doorkeepers
Industrial Engineers
Ink Workers
Librarians, Professional
Linecasting Machine Tenders
Machinists
Mechanical Engineers
Messengers
Millwrights
Nurses, Professional
Oilers
Painters, Maintenance
Peripheral Electronic Data Processing Equipment Operators
Personnel and Labor Relations Specialists
Personnel Clerks
Photolettering Machine Operators
Plumbers and/or Pipefitters
Procurement Clerks
Proof Press Operators
Receptionists
Retouchers
Sales Clerks
Screen Makers, Photographic Process
Screen or Stencil Printers and/or Setters
Statistical Clerks
Steel Die Press Operators
Stock Clerks, Stockroom, Warehouse or Storage Yard
Strike on Machine Operators
Supervisors, Nonworking--Service Only
Switchboard Operators
Vulcanizers, Rubber Plate
Welders and/or Flamecutters

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

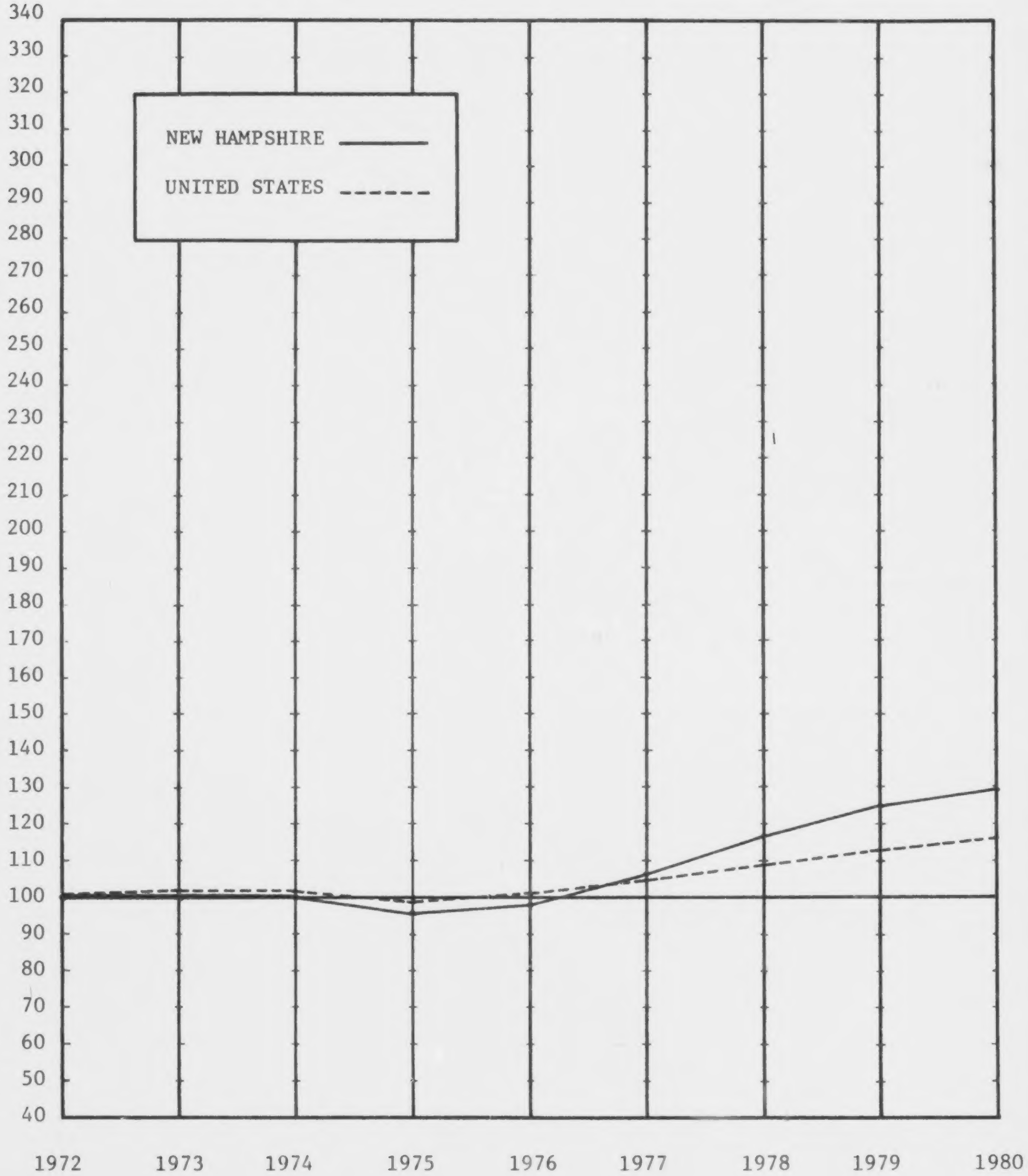
	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	4.8	-	1,094.0	-
1973	4.8	0	1,110.7	1.5
1974	4.8	0	1,111.3	0.1
1975	4.6	- 4.2	1,083.4	- 2.5
1976	4.7	2.2	1,099.2	1.5
1977	5.1	8.5	1,141.4	3.8
1978	5.6	9.8	1,192.0	4.4
1979	6.0	7.1	1,239.5	4.0
1980**	6.2	3.3	1,271.7	2.6

* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires (except recapping and retreading automobile tires). This group also includes establishments engaged in molding primary plastics for the trade, and manufacturing miscellaneous finished plastics products.

During the survey month of June 1980 there were 8,623 wage and salary workers employed in this major industry group, which reflected almost no change in total employment from the previous survey for the same period three years ago. However, there was a reduction of 595 workers in production and production related occupations and a gain of 620 workers in the managerial (109), professional (186), clerical (178) and sales (147) occupations during this time. The three most significant occupations were in the production group and combined to make up 1,249 workers, or about 14 percent of the total employment.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55C39	Production Packagers, Hand or Machine	430
2	55U00	Assemblers	417
3	55B58	Inspectors	402
4	10000	Managers and Officers	325
5	55R85	Compression and/or Injection Molding Machine Operators, Plastics	317
6	55I69	Finishers, Hand	314
7	55B29	Supervisors, Nonworking	303
8	71000	Sales Representatives, Sales Agents, and/or	251
9	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	203
10	55B84	Machinists	193

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	96.9
2	55B29	Supervisors, Nonworking	68.8
3	55B58	Inspectors	62.5
	55B86	Maintenance Repairers, General Utility	62.5
5	55B84	Machinists	59.4

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		8,623	100.0				
MANAGERS AND OFFICERS	10000	325	3.7	8	351	299	96.9
PROFESSIONAL OCCUPATIONS	20000	384	4.4				
Chemical Engineers	21003	23	0.3	48	34	12	15.6
Industrial Engineers	21006	60	0.7	30	78	42	21.9
Mechanical Engineers	21008	36	0.4	32	48	24	28.1
All Other Engineers	21900	113	1.3	NA	-	-	NA
Chemists	22201	12	0.1	29	15	9	21.9
Systems Analysts, Electronic Data Processing	24000	15	0.2	27	19	11	15.6
Purchasing Agents and/or Buyers	25300	29	0.3	10	32	26	53.1
Accountants and Auditors	25401	35	0.4	12	39	31	31.3
Personnel and Labor Relations Specialists	25465	18	0.2	11	20	16	34.4
Designers	25489	31	0.4	14	35	27	21.9
All Other Professional Workers	29000	12	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	100	1.2				
Drafters	32003	33	0.4	41	47	19	25.0
All Other Engineering Technicians	32900	51	0.6	NA	-	-	NA
All Other Technicians	39000	16	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	106	1.3				
Janitors, Porters, and Cleaners	41000	69	0.8	8	75	63	43.8
Supervisors, Nonworking--Service Only	44014	32	0.4	38	44	20	9.4
All Other Service Workers	49000	5	0.1	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
PRODUCTION OCCUPATIONS	50000	6,736	78.1				
Mechanics, Maintenance	51043	121	1.4	24	150	92	31.3
All Other Mechanics and Repairers	51900	13	0.2	NA	-	-	NA
Truck Drivers	54000	37	0.4	20	44	30	37.5
Carpenters	55A47	10	0.1	7	11	9	18.8
Electricians	55B12	50	0.6	11	56	44	40.6
Supervisors, Nonworking	55B29	303	3.5	10	333	273	68.8
Industrial Truck Operators	55B57	121	1.4	15	139	103	34.4
Inspectors	55B58	402	4.7	11	446	358	62.5
Machinists	55B84	193	2.2	9	210	176	59.4
Maintenance Repairers, General Utility	55B86	179	2.1	15	206	152	62.5
Helpers, Trades	55B87	45	0.5	30	58	32	18.8
Order Fillers	55C08	54	0.6	8	58	50	18.8
Plumbers and/or Pipefitters	55C30	15	0.2	23	18	12	12.5
Press Operators and/or Plate Printers	55C36	13	0.2	36	18	8	9.4
Production Packagers, Hand or Machine	55C39	430	5.0	21	520	340	34.4
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	203	2.4	9	221	185	9.4
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	76	0.9	8	82	70	9.4
Sheet Metal Workers	55C81	27	0.3	48	40	14	9.4
Tool and Die Makers	55D23	78	0.9	18	92	64	25.0
Welders an/or Flame-cutters	55D46	21	0.2	34	28	14	15.6
Trimmers, Machine	55D94	22	0.3	46	32	12	12.5
Curers, Rubber Goods	55H15	13	0.2	40	18	8	6.3
Die Cutters and/or Clicking Machine Operators	55H64	95	1.1	18	112	78	18.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Dipping Machine Operators	55H76	81	0.9	34	109	53	3.1
Fabricators, Plastics	55I50	103	1.2	37	141	65	9.4
Finishers, Hand	55I69	314	3.6	24	389	239	12.5
Rubber Mill Operators	55L33	12	0.1	20	14	10	9.4
Patternmakers, Plastics	55M06	17	0.2	36	23	11	12.5
Rubber Goods Cutter-Finishers	55N43	18	0.2	19	21	15	6.3
Slitting Machine Operators	55P49	10	0.1	31	13	7	6.3
Strippers	55Q35	23	0.3	37	32	14	12.5
Testers	55Q57	15	0.2	26	19	11	12.5
Thermalasting Machine Operators	55Q58	40	0.5	1	40	40	6.3
Splicers	55Q92	71	0.8	43	102	40	3.1
Vulcanizers, Footwear	55R16	18	0.2	0	18	18	3.1
Press Tenders, Rubber Goods	55R57	93	1.1	24	115	71	15.6
Painters, Production	55R68	154	1.8	16	179	129	25.0
Compression and/or Injection Molding Machine Operators, Plastics	55R85	317	3.7	20	380	254	9.4
Conveyor Operators or Tenders	55R90	30	0.3	42	43	17	9.4
Setters, Plastic Molding Machine	55S28	95	1.1	25	119	71	25.0
Punch Press Operators, Plastics	55S30	53	0.6	39	74	32	6.3
Chief Operators	55S53	46	0.5	34	62	30	6.3
Cutters, Machine	55T66	35	0.4	12	39	31	15.6
Embossing, Stamping and/or Marking Machine Operators	55T79	19	0.2	11	21	17	12.5
Grinder Operators, Chemicals, Plastics, Rubber, and Related Materials	55T86	24	0.3	16	28	20	28.1
Extruder Operators, Plastics or Rubber	55T91	31	0.4	12	35	27	18.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Heat Sealers	55T94	72	0.8	7	77	67	15.6
Assemblers	55U00	417	4.8	31	546	288	50.0
Mixers and/or Blenders, Chemicals and Chemical Products	57031	76	0.9	16	88	64	40.6
Blow-Molding Machine Operators	58002	103	1.2	44	148	58	12.5
Casters, Plastics	58004	11	0.1	0	11	11	3.1
Press Operators, Plastics	58010	64	0.7	37	88	40	12.5
Rotation Molding Machine Operators	58011	37	0.4	28	47	27	12.5
All Other Skilled Craft and Kindred Workers	59001	138	1.6	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	646	7.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	1,032	120.0	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	716	8.3				
Keypunch Operators	61107	21	0.2	19	25	17	25.0
All Other Office Machine Operators	61199	8	0.1	NA	-	-	NA
Accounting Clerks	61301	34	0.4	11	38	30	37.5
General Clerks, Office	61333	42	0.5	11	47	37	50.0
Order Clerks	61350	19	0.2	13	21	17	25.0
Payroll and/or Timekeeping Clerks	61351	34	0.4	13	38	30	56.3
Secretaries	61368	83	1.0	11	92	74	56.3
Switchboard Operator/ Receptionists	61377	15	0.2	14	17	13	37.5
Clerical Supervisors	61396	11	0.1	21	13	9	25.0
All Other Office Clerical Workers	61900	62	0.7	NA	-	-	NA
Production Clerks and/or Coordinators	62003	41	0.5	5	43	39	40.6
Shipping Packers	62004	142	1.7	27	180	104	53.1
Shipping and/or Receiving Clerks	62005	61	0.7	17	71	51	56.3

See page 184 for explanation of footnotes.

STAFFING PATTERNS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

OCCUPATIONAL TITLE	OES CODE	JUNE 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	72	0.8	27	91	53	37.5
All Other Plant Clerical Workers	62900	71	0.8	NA	-	-	NA
SALES OCCUPATIONS	70000	256	3.0				
Sales Representatives, Sales Agents, and/or Sales Associates	71000	251	2.9	17	294	208	46.9
All Other Sales Workers	79000	5	0.1	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

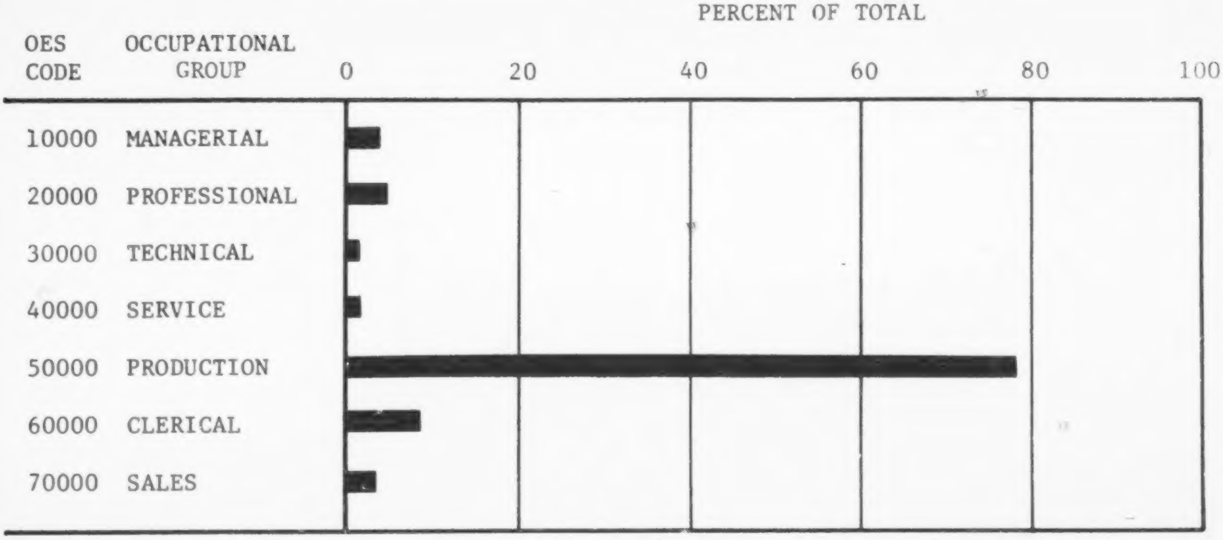
Bookkeepers, Hand
Calender Operator Helpers, Plastics or Rubber
Calender Operators, Plastics or Rubber
Chemical Operator Helpers
Computer Operators
Computer Programmers
Extruder Operator Helpers, Plastics or Rubber
File Clerks
Finishers, Machine
Guards and Doorkeepers
Industrial Engineers
Mechanics, Automotive
Millwrights
Mold Cleaners, Tire
Nurses, Professional
Oilers
Painters, Maintenance
Personnel Clerks
Procurement Clerks
Receptionists
Sales Clerks
Sawyers Plastics
Science Technicians
Skivers
Stationary Boiler Firers
Stationary Engineers
Statistical Clerks
Stenographers
Switchboard Operators
Typists
Weighers, Production

See page 184 for explanation of footnotes.

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	7.7	-	630.1	-
1973	7.8	1.3	692.2	9.9
1974	7.2	- 7.7	694.7	0.4
1975	6.5	- 9.7	608.1	- 12.5
1976	7.7	18.5	639.5	5.2
1977	9.3	20.8	713.5	11.6
1978	10.2	9.7	754.5	5.7
1979	10.8	5.9	775.6	2.8
1980**	9.2	- 14.8	710.7	- 8.4

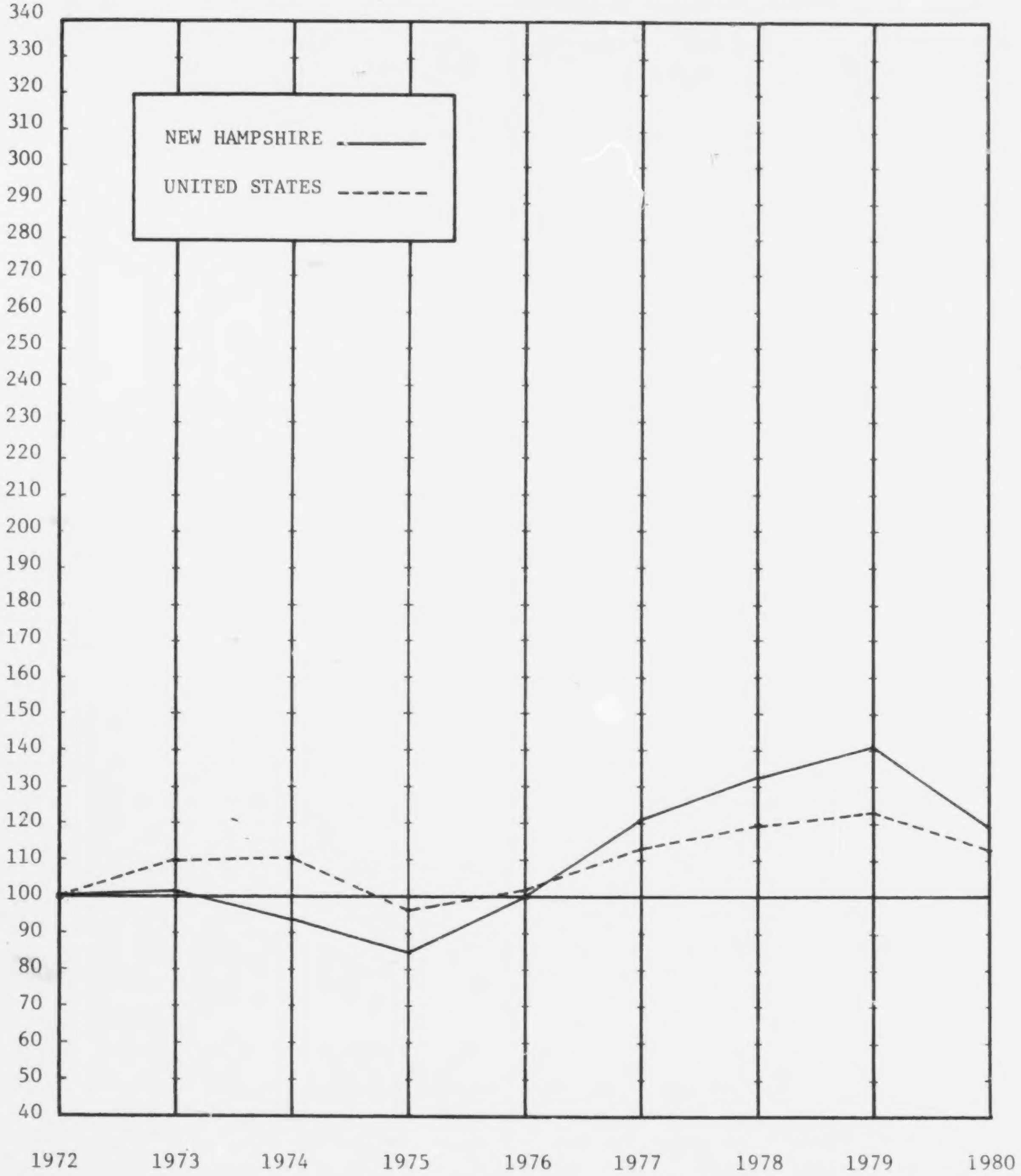
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

INDEXES OF EMPLOYMENT
NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

(SIC 30)



OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
LEATHER AND LEATHER PRODUCTS
(SIC 31)

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials Leather converters are also included.

There were 9,543 wage and salary workers employed in the leather and leather products industries during the survey month of April 1980. This represents a 13 percent decrease in employment from a similar occupational survey three years ago when there were an estimated 11,001 workers employed in these industries. The greatest number of workers were engaged in production and production activities, numbering 8,022 employees or 84 percent of the total leather and leather products group. The three occupations employing the largest number of workers, stitchers (standard machine) with 1,027 workers, floor workers (footwear) with 496 workers, and die cutters with 338 workers combined to make up almost 20 percent of the total work force in this major group.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED EY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1980 ESTIMATED EMPLOYMENT
1	55Q16	Stitchers, Standard Machine	1,027
2	55I85	Floor Workers, Footwear	496
3	55H64	Die Cutters and/or Clicking Machine Operators	338
4	55U00	Assemblers	316
5	55C78	Sewing Machine Operators, Regular Equipment -- Nongarment	281
6	55S69	Cementers, Pasters, Backers, or Fitters, Hand	269
7	55B29	Supervisors, Nonworking	240
8	10000	Managers and Officers	234
9	55Q17	Stitchers, Utility	205
10	55P01	Shoe Parts Sewers, Hand	193

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	10000	Managers and Officers	89.2
2	55H64	Die Cutters and/or Clicking Machine Operators	64.9
3	41000	Janitors, Porters, and Cleaners	59.5
	61351	Payroll and/or Timekeeping Clerks	59.5
5	62004	Shipping Packers	56.8

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		9,543	100.0				
MANAGERS AND OFFICERS	10000	234	2.5	11	260	208	89.2
PROFESSIONAL OCCUPATIONS	20000	155	1.6				
Industrial Engineers	21006	19	0.2	16	22	16	32.4
Mechanical Engineers	21008	11	0.1	29	14	8	13.5
All Other Engineers	21900	4	*	NA	-	-	NA
Purchasing Agents and/or Buyers	25300	40	0.4	9	44	36	43.2
Accountants and Auditors	25401	24	0.3	9	26	22	27.0
Personnel and Labor Relations Specialists	25465	15	0.2	24	19	11	16.2
Designers	25489	33	0.3	15	38	28	27.0
All Other Professional Workers	29000	9	0.1	NA	-	-	NA
TECHNICAL OCCUPATIONS	30000	73	0.8				
Computer Programmers	31000	20	0.2	31	26	14	13.5
Engineering Technicians	32000	19	0.2	36	26	12	10.8
Science Technicians	33000	17	0.2	45	25	9	5.4
ALL OTHER TECHNICIANS	39000	17	0.2	NA	-	-	NA
SERVICE OCCUPATIONS	40000	96	1.0				
Janitors, Porters, and Cleaners	41000	69	0.7	13	78	60	59.5
All Other Service Workers	49000	27	0.3	NA	-	-	NA
PRODUCTION OCCUPATIONS	50000	8,022	84.0				
Mechanics, Maintenance	51043	28	0.3	38	39	17	21.6
All Other Mechanics and Repairers	51900	4	*	NA	-	-	NA

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Pressers, Machine	53015	21	0.2	47	31	11	10.8
Truck Drivers	54000	31	0.3	21	38	24	29.7
Supervisors, Nonworking	55B29	240	2.5	14	274	206	48.6
Industrial Truck Operators	55B57	20	0.2	17	23	17	18.9
Inspectors	55B58	136	1.4	12	152	120	35.1
Machinists	55B84	29	0.3	21	35	23	24.3
Maintenance Repairers, General Utility	55B86	77	0.8	19	92	62	37.8
Production Packagers, Hand or Machine	55C39	126	1.3	14	144	108	43.2
Sewing Machine Operators, Regular Equipment--Nongarment	55C78	281	2.9	26	354	208	40.5
Sewing Machine Operators, Special and/or Automatic Equipment--Nongarment	55C79	79	0.8	18	93	65	35.1
Skivers	55D04	88	0.9	14	100	76	48.6
Trimmers, Machine	55D94	105	1.1	20	126	84	40.5
Assemblers for Puller-Over Hand or Machine	55E25	150	1.6	21	182	118	40.5
Bed Lasters	55E63	53	0.6	18	63	43	27.0
Bottom Fillers	55F03	67	0.7	33	89	45	27.0
Buffers, Hides or Skins	55F23	39	0.4	33	52	26	8.1
Buffers, Shoe Parts	55F24	112	1.2	25	140	84	35.1
Cementers, Machine Joiner	55F91	64	0.7	20	77	51	27.0
Perforator Operators	55G16	25	0.3	22	30	20	21.6
Cobblers	55G49	54	0.6	17	63	45	29.7
Die Cutters and/or Clicking Machine Operators	55H64	338	3.5	8	365	311	64.9
Flamers	55I82	32	0.3	19	38	26	32.4
Floor Workers, Footwear	55I85	496	5.2	17	580	412	51.4
Folders, Machine	55I89	29	0.3	21	35	23	29.7
Heel Attachers	55J89	43	0.4	19	51	35	32.4
Heel Seat Lasters, Machine	55J92	34	0.4	19	40	28	32.4
Heel Seat Fitters, Machine	55J94	14	0.1	34	19	9	13.5

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Inkers, Hand or Machine	55K18	24	0.3	23	30	18	18.9
Lasters, Hand	55K54	36	0.4	25	45	27	21.6
Lasting Machine Operators, Hand Method	55K55	43	0.4	22	52	34	18.9
Patternmakers	55M08	12	0.1	11	13	11	8.1
Repairers, Finish	55N05	141	1.5	12	158	124	43.2
Rough Rounders, Machine	55N37	20	0.2	26	25	15	16.2
Seam Rubbing Machine Operators	55N81	40	0.4	27	51	29	27.0
Shoe Parts Sewers, Hand	55P01	193	2.0	35	261	125	16.2
Shank-Piece Tackers	55P05	27	0.3	22	33	21	29.7
Side Lasters	55P21	54	0.6	19	64	44	32.4
Sole Levelers, Machine	55P61	27	0.3	47	40	14	13.5
Sorters, Leather	55P63	76	0.8	13	86	66	43.2
Splitting Machine Feeders	55P78	24	0.3	43	34	14	10.8
Sprayers, Hand and/or Machine	55P83	44	0.5	27	56	32	27.0
Stainers	55P90	18	0.2	32	24	12	18.9
Stakers, Machine	55P91	23	0.2	39	32	14	10.8
Stitchers, Special Machine	55Q15	56	0.6	22	68	44	16.2
Stitchers, Standard Machine	55Q16	1,027	10.7	8	1,109	945	54.1
Stitchers, Utility	55Q17	205	2.1	19	244	166	45.9
Tackers, Togglers, and Pasters	55Q45	92	1.0	5	97	87	13.5
Tanning Drum Operators and/or Colorers, Hides or Skins	55Q50	37	0.4	40	52	22	8.1
Toe Lasters	55Q76	18	0.2	25	22	14	16.2
Treers	55Q84	0.8	0.8	22	93	59	29.7
Wringer Machine Operators	55R49	34	0.4	33	45	23	10.8
Compression and/or Injection Molding Machine Operators	55R85	44	0.5	13	50	38	8.1
Conveyor Operators or Tenders	55R90	17	0.2	29	22	12	16.2

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Splitters, Machine	55S67	32	0.3	29	41	23	21.6
Fasteners, Machine	55S68	81	0.8	20	97	65	35.1
Cementers, Pasters, Backers, or Fitters, Hand	55S69	269	2.8	12	301	237	45.9
Eyelet Machine Operators	55S70	47	0.5	14	54	40	40.5
Molders, Shoe Parts	55S71	17	0.2	13	19	15	18.9
Pulling and Lasting Machine Operators	55S73	50	0.5	16	58	42	29.7
Cutters, Hand	55S78	125	1.3	23	154	96	27.0
Gluers and/or Cementers, Hand	55T65	94	1.0	24	117	71	29.7
Embossing, Stamping and/or Marking Machine Operators	55T79	110	1.2	16	128	92	51.4
Assemblers	55U00	316	3.3	24	392	240	43.2
All Other Skilled Craft and Kindred Workers	59001	24	0.3	NA	-	-	NA
All Other Operatives and Semiskilled Workers	59002	427	4.5	NA	-	-	NA
All Other Laborers and Unskilled Workers	59003	1,207	12.6	NA	-	-	NA
CLERICAL OCCUPATIONS	60000	865	9.1				
Computer Operators	61105	10	0.1	26	13	7	13.5
Keypunch Operators	61107	16	0.2	15	18	14	10.8
All Other Office Machine Operators	61199	16	0.2	NA	-	-	NA
Accounting Clerks	61301	50	0.5	10	55	45	35.1
Bookkeepers, Hand	61307	35	0.4	14	40	30	45.9
General Clerks, Office	61333	128	1.3	7	137	119	51.4
Order Clerks	61350	43	0.4	9	47	39	18.9
Payroll and/or Timekeeping Clerks	61351	84	0.9	8	91	77	59.5
Personnel Clerks	61352	13	0.1	19	15	11	18.9
Secretaries	61368	46	0.5	22	56	36	32.4
Switchboard Operator/ Receptionists	61377	20	0.2	11	22	18	37.8

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1980 EST. EMPL. 1/	PERCENT OF TOTAL	RELATIVE ERROR 2/	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Typists	61392	15	0.1	24	19	11	21.6
Clerical Supervisors	61396	141	1.5	9	154	128	45.9
All Other Office Clerical Workers	61900	54	0.6	NA	-	-	NA
Production Clerks and/or Coordinators	62003	41	0.4	23	50	32	32.4
Shipping Packers	62004	75	0.8	14	86	64	56.8
Shipping and/or Receiving Clerks	62005	45	0.5	18	53	37	54.1
Stock Clerks, Stockroom, Warehouse or Storage Yard	62008	28	0.3	13	32	24	29.7
All Other Plant Clerical Workers	62900	5	0.1	NA	-	-	NA
SALES OCCUPATIONS	70000	98	1.0				
Sales Representatives, Sales Agents, and/or Associates	71000	80	0.8	19	95	65	43.2
Sales Clerks	72002	18	0.2	36	24	12	16.2

* Less than 0.05 percent.

See page 184 for explanation of footnotes.

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

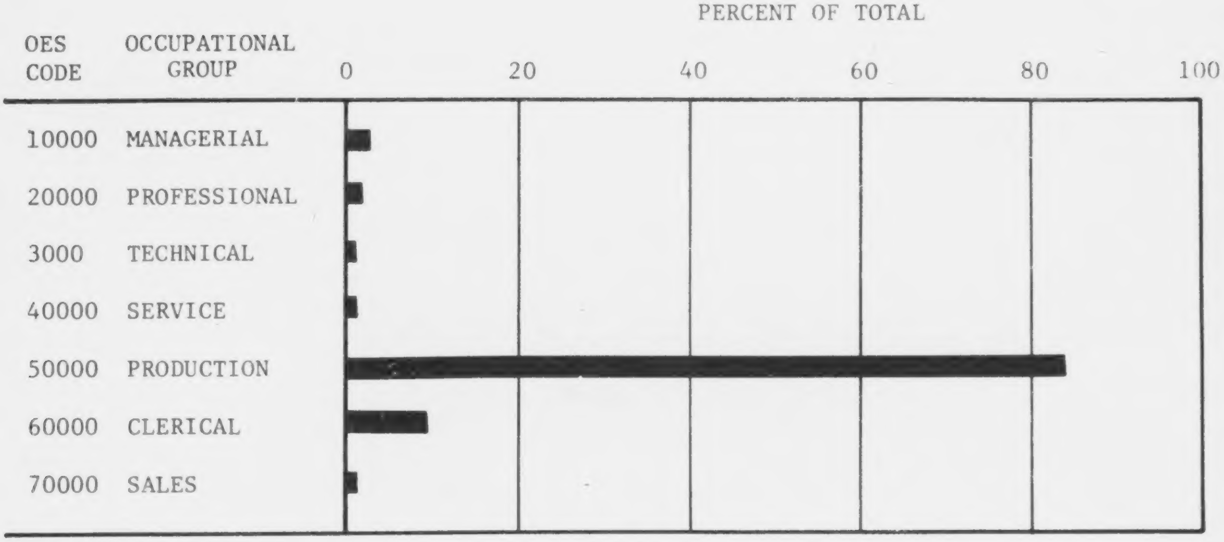
Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Beamers Hand or Machine
Belt Makers, Apparel
Bookkeeping and/or Billing Machine Operators
Burnishers
Carpenters
Case Makers
Electricians
File Clerks
Glue Spreading Machine Operators, Luggage
Guards and Doorkeepers
Heel Builders, Hand or Machine
Helpers, Trades
Instructors, Leather or Footwear Machinery
Leather Stampers, Hand
Limers
Luggage Makers
Measuring Machine Operators, Leather
Nurses, Professional
Oilers
Painters, Maintenance
Plumbers and/or Pipefitters
Pressers, Hand
Procurement Clerks
Puller-Overs
Receptionists
Riveters, Light
Seasoners, Machine
Stationary Boiler Firers
Statistical Clerks
Stenographers
Supervisors, Nonworking--Service Only
Switchboard Operators
Systems Analysts, Electronic Data Processing
Tabulating Machine Operators
Tanning Liquor Makers
Thermalasting Machine Operators
Vamp Creasers
Weighers, Record-Keeping
Welders and/or Flamecutters

PERCENT DISTRIBUTION OF MAJOR OCCUPATIONAL GROUPS

LEATHER AND LEATHER PRODUCTS

(SIC 31)



ANNUAL AVERAGE EMPLOYMENT (in thousands)*

1972-1980

LEATHER AND LEATHER PRODUCTS

(SIC 31)

	NEW HAMPSHIRE		UNITED STATES	
YEAR	ANNUAL AVERAGE	PERCENT CHANGE	ANNUAL AVERAGE	PERCENT CHANGE
1972	12.8	-	296.0	-
1973	11.8	- 7.8	284.0	- 4.1
1974	10.7	- 9.3	271.1	- 4.5
1975	10.4	- 2.8	248.2	- 8.4
1976	11.8	13.5	262.7	5.8
1977	11.0	- 6.8	254.8	- 3.0
1978	11.2	1.8	256.8	0.8
1979	10.2	- 8.9	248.0	- 3.4
1980 **	9.7	- 4.9	240.1	- 3.2

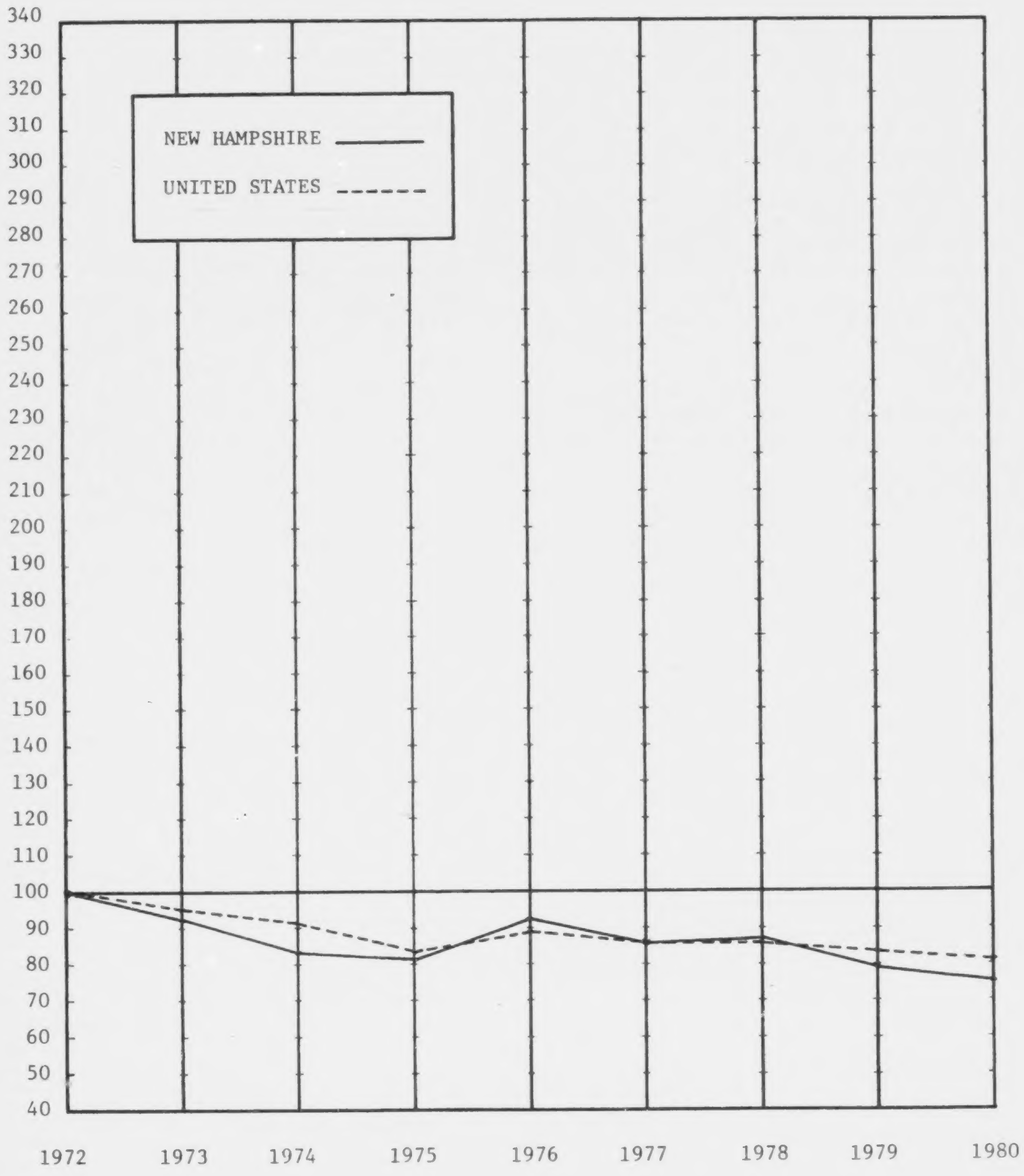
* Nonagricultural Employment

** Employment for 1980 based on preliminary data.

# INDEXES OF EMPLOYMENT
# NEW HAMPSHIRE AND THE UNITED STATES 1972 - 1980
1972 = 100

LEATHER AND LEATHER PRODUCTS

(SIC 31)



METHODOLOGY

A. Sample and Survey Response

The second quarter of 1979 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The manufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1980 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 950 establishments or 76.5 percent of the 1,242 units surveyed. Employment reported by these units accounted for 83.2 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and two followups. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4-9 would be in one size class and those with employment of 10-19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1980 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by

establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, leather and leather products (SIC 31) lists an estimated total of 1,027 stitchers, standard machine with a relative error of eight percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of stitchers, standard machine would not differ from the estimate by more than 82 or an estimated high of 1,109 or low of 945. Any specific occupation with ten or more employees and a relative error of 50 percent or less was published separately in this report except in industries 26,33, and 356 where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

MANUFACTURING IN NEW HAMPSHIRE
SURVEY SAMPLE AND SAMPLE RESPONSE
1980

SIC CODE	INDUSTRY	UNIVERSE		UNITS USABLE RESPONSE			EMPLOYMENT USABLE RESPONSE		
		UNITS	EMPLOYMENT	SAMPLE	RESPONSE	RATE	SAMPLE	RESPONSE	RATE
20-39	TOTAL ALL MANUFACTURING	1,736	116,713	1,242	950	76.5	113,058	94,071	83.2
24,25 32-39	DURABLE GOODS	1,127	71,157	793	607	76.5	69,214	59,632	86.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	317	5,344	192	139	72.4	4,980	4,236	85.1
242	Sawmills and Planing Mills	101	1,906	83	60	72.3	1,807	1,469	81.3
243	Millwork, Veneer, Plywood, and Structural Wood Members	32	1,150	22	16	72.7	1,124	993	88.3
25	FURNITURE AND FIXTURES	51	1,952	43	29	67.4	1,925	1,651	85.8
251	Household Furniture	46	1,474	32	20	62.5	1,447	1,200	82.9
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	84	3,351	61	42	68.9	3,309	2,833	85.6
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	12	1,458	10	5	50.0	1,456	1,337	91.8
33	PRIMARY METAL INDUSTRIES	39	3,321	33	21	63.6	3,301	2,154	65.3
335	Rolling, Drawing, and Extruding of Nonferrous Metals	7	835	7	7	100.0	835	835	100.0
336	Nonferrous Foundries (Castings)	18	994	15	8	53.3	988	751	76.0

34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	140	7,230	112	88	78.6	7,196	5,792	80.5
344	Fabricated Structural Metal Products	45	1,996	37	31	83.8	2,012	1,628	80.9
349	Miscellaneous Fabricated Metal Products	22	1,590	21	18	85.7	1,589	1,551	97.6
35	MACHINERY, EXCEPT ELECTRICAL	250	21,561	173	139	80.3	20,936	16,852	80.5
353	Construction, Mining, and Materials Handling Machinery and Equipment	5	959	4	4	100.0	957	957	100.0
354	Metalworking Machinery and Equipment	58	2,934	43	37	86.0	2,901	2,426	83.6
355	Special Industry Machinery, Except Metalworking Machinery	36	4,195	17	14	82.4	3,716	3,381	91.0
356	General Industrial Machinery and Equipment	18	3,242	15	11	73.3	3,208	1,965	61.3
357	Office, Computing, and Accounting Machines	22	8,885	19	13	68.4	8,879	7,165	80.7
359	Miscellaneous Machinery, Except Electrical	106	1,059	71	57	80.3	990	826	83.4
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	131	18,734	89	74	83.1	17,958	16,931	94.3
362	Electrical Industrial Apparatus	10	982	7	6	85.7	978	969	99.1
364	Electric Lighting and Wiring Equipment	16	2,982	15	11	73.3	2,980	2,274	76.3
366	Communication Equipment	24	5,994	17	13	76.5	5,980	5,896	98.6
367	Electronic Components and Accessories	58	6,959	27	24	88.9	6,203	6,031	97.2
369	Miscellaneous Electrical Machinery, Equipment and Supplies	7	1,136	8	6	75.0	1,137	1,085	95.4

38	INSTRUMENTS AND RELATED SUPPLIES	58	7,646	50	42	84.0	7,626	7,481	98.1
381	Engineering and Scientific Instruments	7	1,574	5	4	80.0	1,570	1,555	99.0
382	Measuring and Controlling Instruments	19	4,677	16	14	87.5	4,667	4,632	99.3
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	57	2,018	40	33	82.5	1,983	1,702	85.8
399	Miscellaneous Manufactures	27	1,066	21	19	90.5	1,054	975	92.5
20-23, 26-31	NONDURABLE GOODS	609	45,556	449	343	76.4	43,844	34,439	78.5
20	FOOD AND KINDRED PRODUCTS	70	3,149	56	46	82.1	3,108	2,785	89.6
208	Beverages	16	1,064	14	13	92.9	1,059	1,011	95.5
22	TEXTILE MILL PRODUCTS	52	5,414	45	35	77.8	5,359	4,241	79.1
223	Broad Woven Fabric Mills, Wool	6	1,332	5	5	100.0	1,331	1,331	100.0
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	10	1,206	10	7	70.0	1,206	923	76.5
225	Knitting Mills	12	960	12	10	83.3	960	884	92.1
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	48	2,771	43	37	86.0	2,735	2,505	91.6
233	Women's, Misses' and Juniors' Outerwear	23	1,915	20	16	80.0	1,895	1,691	89.2
26	PAPER AND ALLIED PRODUCTS	53	6,366	45	32	71.1	6,338	4,162	65.7
262	Paper Mills, Except Building Paper Mills	16	3,266	13	11	84.6	3,275	3,069	93.7
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	233	6,177	162	124	76.5	5,974	5,338	89.4

271	Newspapers: Publishing, Publishing and Printing	48	1,650	40	27	67.5	1,595	1,360	85.3
275	Commercial Printing	108	2,351	66	54	81.8	2,251	2,128	94.5
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	75	11,043	40	32	80.0	10,266	8,154	79.4
302	Rubber and Plastics Footwear	5	1,965	5	4	80.0	1,965	1,879	95.6
306	Fabricated Rubber Products Not Elsewhere Classified	19	929	11	10	90.9	928	905	97.5
307	Miscellaneous Plastics Products	58	8,149	24	18	75.0	7,373	5,370	72.8
31	LEATHER AND LEATHER PRODUCTS	78	10,636	58	37	63.8	10,064	7,254	72.1
314	Footwear, Except Rubber	50	8,987	32	23	71.9	8,417	6,104	72.5

APPENDIX

All OES surveys provide for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000 Managers and Officers:

Includes persons concerned with managerial functions common to many types of organization as well as occupations which require a knowledge of the management and operations of the given organizations. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000 Professional Occupations:

Includes persons concerned with the theoretical or practical aspects of such fields as science, engineering, technical work, art education, medicine, law and business relations. Most of these occupations require substantial educational preparation, usually at the university level. Typical examples are: Architects; Engineers (including Sales Engineers); Metallurgists; Physicists; Mathematicians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioner; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers.

30000 Technical Occupations:

Includes all persons actually engaged in technical work utilizing theoretical knowledge of fundamental scientific, engineering, mathematical, computer programming or draft design principles comparable to those acquired through study at technical institutes, junior colleges or other formal post high school training less extensive than a four year college course, or through equivalent on-the-job training or experience.

40000 Service Occupations:

Includes those workers in occupations concerned with the performance of services for persons that require either direct contact or close association with the individual; occupations concerned with the protection of individuals or of public or private property; occupations related to the cleaning of the interior and equipment of buildings, offices, stores, and similar places.

50000 Production Occupations:

Includes all skilled, semiskilled, and unskilled workers performing machine and manual tasks involving maintenance, construction, repair, material handling and production.

60000 Clerical Occupations:

Includes clerical personnel whose work involves preparing, transcribing, transferring, systematizing and preserving communications and records; collating accounts; distributing information. Also includes clerical workers involved in planning, coordinating or expediting production and the flow of work and workers involved in the clerical aspects of receiving, storing, issuing or shipping of materials, merchandise, supplies, or equipment.

70000 Sales Occupations:

Includes persons concerned wholly or primarily with selling when knowledge of the goods or services sold is required. Excludes Sales Engineers (see Professional and Technical Workers) and Cashiers (see Clerical Workers).

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N. A. Not applicable

55205-2.11-F

N
OCCUPATIONAL EMPLOYMENT STATISTICS
W

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A
MANUFACTURING INDUSTRIES
PEOPLE AT WORK
STAFFING PATTERNS
H
I
R

1983

DEPARTMENT OF EMPLOYMENT SECURITY

NEW HAMPSHIRE STAFFING PATTERNS
IN
MANUFACTURING
INDUSTRIES
1983

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U.S. BUREAU OF LABOR STATISTICS

Published March 1985

Wesley S. Noyes, Jr., Supervisor

William Halm, Labor Market Analyst II

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, M.A. and the national level in Washington, D.C. for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, and other Research staff including; Tracey Petrozzi, Madaline Shanelaris and Sarah Stapleton with programming and data processing support provided by Charles Marshall.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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Occupational Employment Statistics Unit
32 South Main Street
Concord, N.H. 03301

Phone (603) 224-3311, Extension 256

INTRODUCTION

The United States Department of Labor initiated the OES program in mid 1971 to meet the increasing demand for current occupational data. The program is based upon the collection of employment data by mail sampling selected sectors of the economy on a recurring three year cycle.

Publications of the first, second and third cycles include: Government (1974, 1977, 1979 and 1982); Trade (1976, 1979 and 1982); Manufacturing (1977 and 1980); Construction, Insurance, Finance, Real Estate and Services (1978); Educational Services (1978); Regulated Industries (1976, 1979 and 1982) and Hospitals (1980).

Between June 1983 and April 1984, the New Hampshire Department of Employment Security conducted an occupational employment survey of Manufacturing industries by means of a questionnaire. This report is the second in the third survey cycle and was compiled from usable returns from the original mailing plus one follow up.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries. The data obtained from these surveys is being used as input to update the OES Industry/Occupation Matrix. It, in turn, provides the base for projecting the non-farm sector or any industry subdivision thereof.

A new coding structure was used for the Manufacturing and Hospital survey. (See appendix.) The total number of occupations were reduced from 1,606 to 720 to more nearly agree with the number used by the Standard Occupational Classification (SOC) system and the Census which use 663 and 503 occupational titles respectively.

The goal of the OES program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since there were insufficient usable returns and the information could be misleading or publication would jeopardize the confidentiality of data provided by some of the firms reporting.

SUMMARY

OCCUPATIONAL EMPLOYMENT
MANUFACTURING IN NEW HAMPSHIRE

(SIC 20-39)

The manufacturing division includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills and characteristically use power driven machines and materials handling equipment. Establishments engaged in assembling component parts of manufacturing products are also considered manufacturing if the new product is neither a structure nor other fixed improvement. Also included is the blending of materials such as lubricating oils, plastics, resins, or liquors.

During the occupational survey period of the second quarter of 1983 there were 112,699 wage and salary workers employed in all manufacturing industries in New Hampshire. This represented a loss of 4,037 workers or 3.5 percent from the previous manufacturing survey conducted in 1980. This decline in manufacturing employment followed a period of continuous expansion from 1977-1980 and it occurred as the national economy experienced a recession which began in late 1980. Durable and nondurable goods experienced almost equal losses of 1,917 and 1,954 workers respectively. However, the electrical and electronic machinery, equipment and supplies industry added 2,258 workers, an increase of over 11 percent during this period. Hillsborough County contains the largest concentration of manufacturing employment (see chart on page 2).

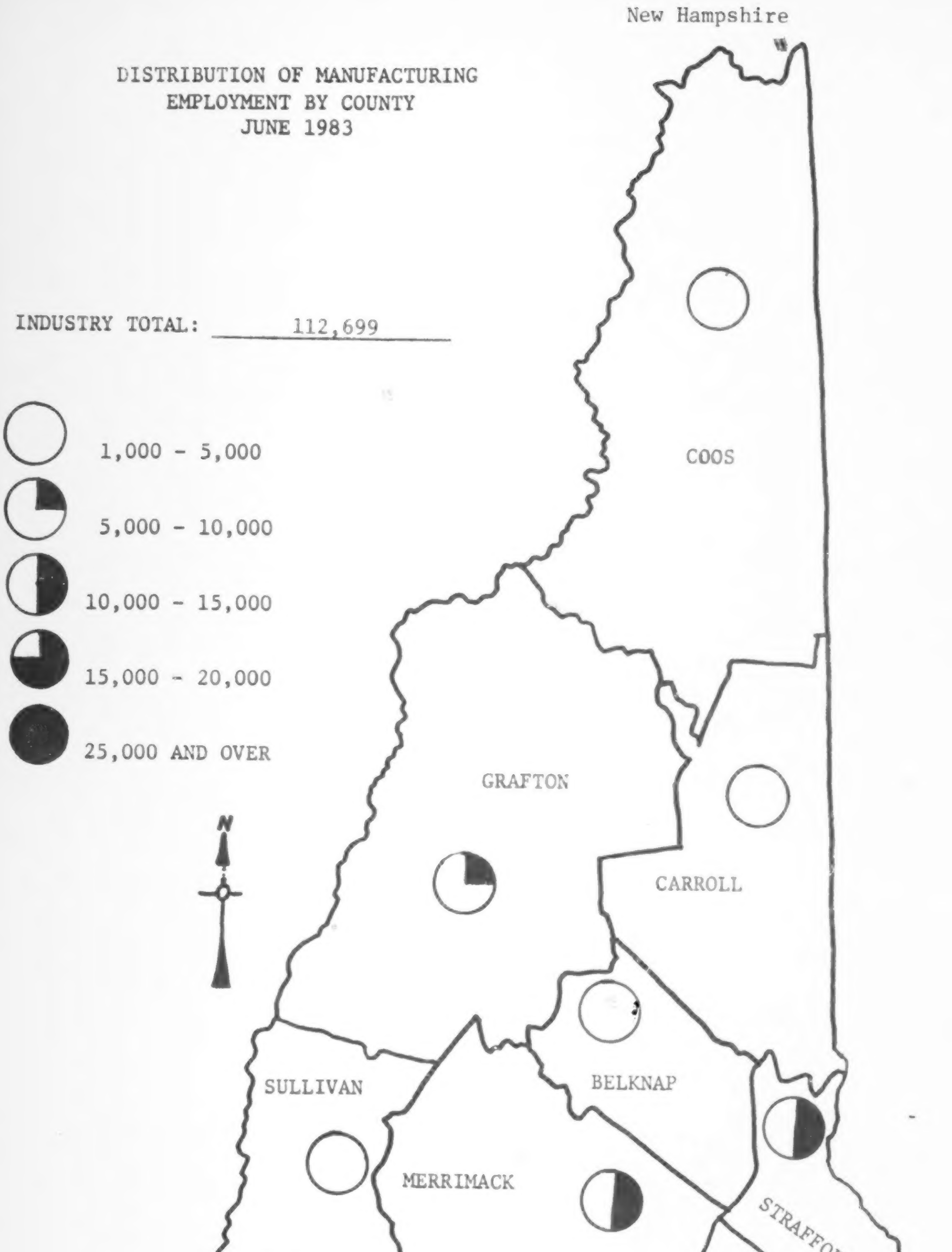
This distribution of manufacturing workers among major occupational groups shows that the largest percentage, almost 64 percent, is concentrated in production, construction, maintenance and material handling occupations. Professional, paraprofessional and technical occupations and clerical occupations accounted for approximately 13 and 12 percent of the manufacturing employment respectively.

Data for Primary Metal Industries (SIC 33), Rubber and Miscellaneous Plastic Products (SIC 30), Transportation Equipment (SIC 37), Chemical and Allied Products (SIC 28) and Petroleum and Coal Products (SIC 29) were not published since they did not meet the criteria for publication (see appendix).

Our sample consisted of 1,139 units representing an employment of 107,499. Usable responses were received from 837 units of 73 percent of the units sampled. The reported employment was 82,718 or 77 percent of the employment in the sample.

DISTRIBUTION OF MANUFACTURING EMPLOYMENT BY COUNTY JUNE 1983

INDUSTRY TOTAL: 112,699


New Hampshire
1,000 - 5,000
5,000 - 10,000
10,000 - 15,000
15,000 - 20,000
25,000 AND OVER
N
COOS
GRAFTON
CARROLL
BELKNAP
SULLIVAN
MERRIMACK
STRAFFORD
ROCKINGHAM
HILLSBOROUGH
CHESHIRE

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	Numerical Change	Percent Change
20-39	ALL MANUFACTURING	116,736*	112,699*	-4,037	- 3.5
24,25,32-39	DURABLE GOODS MFG.	74,304*	72,221*	-1,917	- 2.7
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,645	4,708	63	1.4
242	Sawmills and Planing Mills	1,711	1,739	28	1.6
243	Millwork, Veneer, Plywood, and Structural Wood Members	916	915	1	- 0.1
25	FURNITURE AND FIXTURES	1,881	1,365	- 516	-27.4
251	Household Furniture	1,463	1,029	- 434	-29.7
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,939	2,394	- 545	-18.5
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,278	1,035	- 243	-19.0
33	PRIMARY METAL INDUSTRIES	3,741	3,661	- 80	- 2.1
335	Rolling, Drawing, and Extruding of Nonferrous Metals	1,191	1,396	205	17.2
336	Nonferrous Foundries (Castings)	1,054	1,120	66	6.3
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	7,413	6,986	- 427	- 5.8
344	Fabricated Structural Metal Products	2,169	1,925	- 244	-11.2
349	Miscellaneous Fabricated Metal Products	1,419	1,584	165	11.6
35	MACHINERY, EXCEPT ELECTRICAL	23,442	21,436	-2,006	- 8.6
353	Construction, Mining, and Materials Handling Machinery and Equipment	857	371	- 486	-56.7
354	Metalworking Machinery and Equipment	3,110	2,560	- 550	-17.7
355	Special Industry Machinery, Except Metalworking Machinery	4,112	2,997	-1,115	-27.1
356	General Industrial Machinery and Equipment	3,456	3,433	- 23	- 0.7
357	Office, Computing, and accounting Machines	10,491	10,670	179	1.7
359	Miscellaneous Machinery, Except Electrical	1,118	1,126	8	0.7

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES	19,772	22,030	2,258	11.4
362	Electrical Industrial Apparatus	1,010	785	- 225	-22.3
364	Electric Lighting and Wiring Equipment	2,936	2,317	- 619	-21.1
366	Communication Equipment	6,401	8,962	2,561	40.0
367	Electronic Components and Accessories	7,531	8,339	808	10.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	1,151	986	- 165	-14.3
38	INSTRUMENTS AND RELATED SUPPLIES	7,668	7,058	- 610	- 8.0
381	Engineering and Scientific Instruments	1,691	2,503	812	48.0
382	Measuring and Controlling Instruments	4,452	3,292	-1,160	-26.1
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	2,004	1,778	- 226	-11.3
399	Miscellaneous Manufacturers	973	970	- 3	- 0.3
20-23,26-31	NONDURABLE GOODS MFG.	42,432*	40,478*	-1,954	- 4.6
20	FOOD AND KINDRED PRODUCTS	2,937	2,849	- 88	- 3.0
208	Beverages	1,077	1,048	- 29	- 2.7
22	TEXTILE MILL PRODUCTS	4,885	3,862	-1,023	-20.9
223	Broad Woven Fabric Mills, Wool	1,299	1,070	- 229	-17.6
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	1,062	963	- 99	- 9.3
225	Knitting Mills	814	647	- 167	-20.5
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,880	2,800	- 80	- 2.8
233	Women's Misses', and Juniors Outerwear	1,989	2,109	120	6.0

MANUFACTURING IN NEW HAMPSHIRE

SIC 20-39

EMPLOYMENT CHANGES BETWEEN OES SURVEY PERIODS
(SECOND QUARTER 1980 - SECOND QUARTER 1983)

SIC CODE	INDUSTRY DESCRIPTION	2nd. Qtr. 1980 ESTIMATED EMPLOYMENT	2nd. Qtr. 1983 ESTIMATED EMPLOYMENT	NUMERICAL CHANGE	PERCENT CHANGE
26	PAPER AND ALLIED PRODUCTS	6,469	5,320	-1,149	-17.8
262	Paper Mills, Except Building Paper Mills	3,228	2,645	- 583	-18.1
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,243	6,812	569	9.1
271	Newspapers: Publishing, Publishing and Printing	1,632	1,879	247	15.1
275	Commercial Printing	2,428	2,344	- 84	- 3.5
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	8,623	9,037	414	4.8
302	Rubber and Plastics Footwear	1,518	1,254	- 264	-17.4
306	Fabricated Rubber Products Not Elsewhere Classified	1,177	1,279	102	8.7
307	Miscellaneous Plastics Products	5,928	6,493	565	9.5
31	LEATHER AND LEATHER PRODUCTS	9,543	8,802	- 741	- 7.8
314	Footwear, Except Rubber	8,024	7,736	- 288	- 3.6

* Totals include estimates for the entire survey, including industries which have not met publication criteria.

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
20-39	TOTAL ALL MANUFACTURING	112,699	6.6	13.1	2.4	12.2	1.4	0.6	63.6
24,25, 32-39	DURABLE GOODS MANUFACTURING	72,221	7.4	18.0	2.1	13.0	1.5	0.8	57.2
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE	4,708	6.1	1.8	2.4	8.4	2.1	11.7	67.5
242	Sawmills and Planing Mills	1,739	5.9	1.4	1.0	8.3	3.2	13.6	66.6
243	Millwork, Veneer, Plywood, and Structural Wood Members	915	5.8	0.9	5.4	7.1	1.9	0.5	78.4
25	FURNITURE AND FIXTURES	1,365	3.9	3.7	2.8	16.3	2.3	-	71.0
251	Household Furniture	1,029	3.1	2.6	2.5	18.2	2.6	-	71.0
32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS	2,394	6.5	7.0	6.3	10.0	1.7	0.2	68.3
329	Abrasive, Asbestos, and Miscellaneous Nonmetalic Mineral Products	1,035	3.9	10.2	3.2	9.8	3.7	0.1	69.1
33	PRIMARY METAL INDUSTRIES	3,661	6.5	7.0	1.4	8.3	1.8	0.1	74.9
335	Rolling, Drawing, and Extruding Of Nonferrous Metals	1,396	7.5	11.7	2.2	8.3	1.9	0.1	68.3
336	Nonferrous Foundries (Castings)	1,120	5.3	7.3	1.3	9.3	2.2	-	74.6
34	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT	6,986	5.3	5.8	2.0	8.2	1.4	-	77.4
344	Fabricated Structural Metal Products	1,925	6.1	7.5	3.0	4.6	1.5	-	77.3
349	Miscellaneous Fabricated Metal Products	1,584	7.3	6.0	2.4	16.4	1.1	-	66.7

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
35	MACHINERY, EXCEPT ELECTRICAL	21,436	9.3	26.3	2.7	18.5	1.3	0.1	41.8
353	Construction, Mining, and Materials Handling Machinery and Equipment	371	5.1	17.2	0.3	14.3	0.8	-	62.3
354	Metalworking Machinery and Equipment	2,560	7.5	16.2	6.8	13.6	1.6	-	54.3
355	Special Industry Machinery, Except Metalworking Machinery	2,997	4.5	18.9	3.9	14.7	0.6	-	57.4
356	General Industrial Machinery and Equipment	3,433	7.0	10.3	2.1	10.3	1.8	0.5	68.0
357	Office, Computing, and Accounting Machines	10,670	12.3	39.3	1.5	24.5	1.4	-	21.0
359	Miscellaneous Machinery, Except Electrical	1,126	8.5	2.9	1.8	11.4	1.1	-	74.3
36	ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES	22,030	7.7	23.8	1.2	11.4	1.7	-	54.2
362	Electrical Industrial Apparatus	785	3.6	13.4	0.6	13.5	3.7	-	65.2
364	Electric Lighting and Wiring Equipment	2,317	2.7	8.4	3.1	6.2	0.6	-	79.0
366	Communication Equipment	8,962	13.5	45.3	0.3	17.1	2.6	-	21.2
367	Electronic Components and Accessories	8,339	3.8	9.3	1.3	6.9	1.0	-	77.7
369	Miscellaneous Electrical Machinery, Equipment and Supplies	986	4.4	6.7	3.7	9.6	1.1	-	74.5
38	INSTRUMENTS AND RELATED SUPPLIES	7,058	5.9	14.4	1.3	13.6	1.2	0.1	63.4
381	Engineering and Scientific Instruments	2,503	4.7	21.4	1.1	19.7	1.4	-	51.7
382	Measuring and Controlling Instruments	3,292	6.0	10.8	1.6	9.3	1.2	0.1	71.0
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	1,778	5.5	3.9	5.9	9.2	1.2	0.1	74.2
399	Miscellaneous Manufacturers	970	5.2	4.3	4.3	7.2	1.1	-	77.9

STAFFING PATTERNS - MANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

			PERCENT						
SIC CODE	INDUSTRY	SECOND QTR. 1983 ESTIMATED EMPLOYMENT	MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59999	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
20-23 26-31	NONDURABLE GOODS MANUFACTURING	40,478	5.4	4.4	3.0	10.8	1.2	0.1	75.1
20	FOOD AND KINDRED PRODUCTS	2,849	4.4	3.0	4.2	10.7	1.0	0.1	76.6
208	Beverages	1,048	2.2	4.0	2.6	12.1	1.1	-	78.0
22	TEXTILE MILL PRODUCTS	3,862	3.8	1.6	0.6	6.4	1.3	-	86.3
223	Broad Woven Fabric Mills, Wool	1,070	2.3	0.5	-	3.5	0.6	-	93.1
224	Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Man-Made Fiber	963	4.9	1.3	1.3	7.0	2.2	-	83.3
225	Knitting Mills	647	3.4	1.7	0.5	8.5	0.6	-	85.3
23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS	2,800	4.4	1.6	2.9	7.9	1.3	-	81.9
233	Women's, Misses' and Juniors Outerwear	2,109	4.2	1.6	2.4	6.9	1.3	-	83.6
26	PAPER AND ALLIED PRODUCTS	5,320	3.6	3.0	3.6	8.2	2.0	0.8	78.8
262	Paper Mills, Except Building Paper Mills	2,645	3.0	4.0	1.7	8.0	2.0	1.5	79.8
27	PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	6,812	6.9	9.8	7.5	20.4	1.2	-	54.2
271	Newspapers: Publishing, Publishing and Printing	1,879	7.0	18.0	14.6	23.4	0.8	-	36.2
275	Commercial Printing	2,344	5.4	1.1	4.2	12.4	0.7	-	76.2
30	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS	9,037	8.6	3.8	1.5	7.0	0.8	-	78.3
302	Rubber and Plastics Footwear	1,254	8.9	-	0.6	7.6	0.6	-	82.3
306	Fabricated Rubber Products Not Elsewhere Classified	1,279	3.2	3.0	0.9	5.7	1.3	0.1	85.8
307	Miscellaneous Plastics Products	6,493	9.7	4.7	1.7	7.2	0.7	-	76.0

31	LEATHER AND LEATHER PRODUCTS	8,802	2.9	2.6	1.0	11.4	1.3	-	80.8
314	FOOTWEAR, EXCEPT RUBBER	7,736	2.7	2.7	0.8	12.1	1.3	-	80.4

THE TWENTY MANUFACTURING OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	93956	Assemblers and Fabricators-Except Machines, Electrical, Electronic and Precision	4,685	4.2
2	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	3,633	3.2
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	3,393	3.0
4	19005	General Managers and Top Executives	3,009	2.7
5	55100	Secretaries	2,732	2.4
6	22126	Electrical and Electronics Engineers	2,671	2.4
7	93905	Electrical and Electronic Assemblers	2,646	2.3
8	93114	Electrical and Electronic Equipment Assemblers-Precision	2,517	2.2
9	92723	Shoe Sewing Machine Operators and Tenders	2,071	1.8
10	83002	Precision Inspectors, Testers, and Graders	1,950	1.7
11	98905	Hand Packers and Packagers	1,806	1.6
12	98502	Machine Feeders and Offbearers	1,749	1.6
13	89108	Machinists	1,718	1.5
14	22505	Electrical and Electronic Engineering Technicians and Technologists	1,534	1.4
15	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	1,439	1.3
16	92717	Sewing Machine Operators, Garment	1,318	1.2
17	85132	Maintenance Repairers, General Utility	1,287	1.1
18	58028	Traffic, Shipping, and Receiving Clerks	1,254	1.1
	98700	Freight, Stock, and Material Movers, Hand	1,254	1.1
20	55347	General Office Clerks	1,248	1.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		112,699	100.0
MANAGERS AND ADMINISTRATOR	10000-19999	7,521	6.6
Financial Managers	13002	649	0.6
Personnel, Training, And Labor Relations Managers	13005	247	0.2
Purchasing Managers	13008	230	0.2
Marketing, Advertising, And Public Relations Managers	13011	652	0.6
Administrative Services Managers	13014	237	0.2
Industrial Production Managers	15014	1,217	1.1
General Managers And Top Executives	19005	3,009	2.7
All Other Managers And Administrators	19999	1,253	1.0
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	14,744	13.1
Accountants And Auditors	21114	925	0.8
Budget Analysts	21117	75	0.1
All Other Financial Specialists	21199	125	0.1
Purchasing Agents And Buyers, Farm Products	21305	15	*
Purchasing Agents, Except Farm Products	21308	452	0.4
Personnel, Training, And Labor Relations Specialists	21511	251	0.2
Cost Estimators	21902	205	0.2
All Other Management Support Workers	21999	688	0.7
Metallurgists And Metallurgical, Ceramic, And Materials Engineers	22105	76	0.1
Chemical Engineers	22114	68	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Civil Engineers, Including Traffic	22121	12	*
Agricultural Engineers	22123	50	0.1
Electrical And Electronics Engineers	22126	2,671	2.4
Industrial Engineers, Except Safety	22128	603	0.5
Safety Engineers, Except Mining	22132	54	0.1
Mechanical Engineers	22135	727	0.6
All Other Engineers	22199	785	0.7
Civil Engineering Technicians And Technologists	22502	75	0.1
Electrical And Electronic Engineering Technicians And Technologists	22505	1,534	1.4
Industrial Engineering Technicians And Technologists	22508	91	0.1
Mechanical Engineering Technicians And Technologists	22511	254	0.2
Drafters	22514	829	0.7
All Other Engineering And Related Technicians And Technologists	22599	555	0.5
Physicists And Astronomers	24102	33	*
Chemists	24105	87	0.1
All Other Physical Scientists	24199	49	0.1
Biological, Agricultural And Food Technicians And Technologists, Except Health	24502	20	*
Chemical Technicians And Technologists, Except Health	24505	173	0.2
All Other Physical And Life Science Technicians And Technologists	24599	14	*
Systems Analysts, Electronic Data Processing	25102	284	0.3
Computer Programmers	25105	789	0.7
Computer Programmer Aides	25108	151	0.1
Programmers-Numerical, Tool, And Process Control	25111	81	0.1
Operations And Systems Researchers And Analysts, Except Computer	25302	31	*
Lawyers	28108	12	*

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Health Practitioners, Technologists, Technicians, And Related Health Occupations	32000	93	0.1
All Other Health Professional, Paraprofessionals, And Technicians	32999	46	0.1
Writers And Editors	34002	222	0.2
Technical Writers	34005	265	0.2
Reporters And Correspondents	34011	174	0.2
Photographers	34023	14	*
Artists And Related Workers	34035	10	*
Designers	34038	314	0.3
All Other Professional, Paraprofessional, And Technical Workers	39999	762	0.7
SALES OCCUPATIONS	40000-49999	2,741	2.4
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	282	0.2
Sales Agents, Advertising	43023	93	0.1
Sales Engineers	49002	252	0.2
Sales Representatives, Scientific And Related Products And Services	49005	646	0.6
Other Sales Representatives	49008	1,100	1.0
Salespersons, Retail	49011	22	*
News And Street Vendors, Telephone Solicitors, Door To Door Sales Workers And Other Related Workers	49026	13	*
All Other Sales And Related Workers	49999	333	0.3
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	13,762	12.2
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	443	0.4
Advertising Clerks	53908	33	*
Proofreaders And Copy Markers	53911	113	0.1
Secretaries	55100	2,732	2.4
Stenographers	55302	95	0.1
Receptionists And Information Clerks	55305	127	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Typists	55308	619	0.5
Typists, Word Processor	55311	133	0.1
Personnel Clerks	55314	143	0.1
File Clerks	55321	111	0.1
Order Clerks	55323	503	0.4
Procurement Clerks	55326	148	0.1
Statistical Clerks	55328	26	*
Bookkeeping, Accounting, And Auditing Clerks	55338	1,204	1.1
Payroll And Timekeeping Clerks	55341	282	0.3
Billing, Cost And Rate Clerks	55344	258	0.2
General Office Clerks	55347	1,248	1.1
Billing, Posting, And Calculating Machine Operators	56002	35	*
Mail Machine Operators, Preparation And Handling	56008	64	0.1
Computer Operators	56011	246	0.2
Peripheral EDP Equipment Operators	56014	62	0.1
Data Entry Keyers	56017	400	0.4
Data Keyers, Composing	56021	132	0.1
All Other Office Machine Operators	56099	68	0.1
Switchboard Operators	57102	151	0.1
Mail Clerks, Except Mail Machine Operators And Postal Service	57302	58	0.1
Production, Planning, And Expediting Clerks	58008	1,102	1.0
Weighers, Measurers, Checkers, And Samplers-Recordkeeping	58017	46	*
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	1,439	1.3
Traffic, Shipping, And Receiving Clerks	58028	1,254	1.1
All Other Material Recording, Scheduling, And Distributing Workers	58099	296	0.3
All Other Clerical And Administrative Support Workers	59999	191	0.2
SERVICE OCCUPATIONS	60000-69999	1,608	1.4
First Line Supervisors And Manager/Supervisors- Service	61000	157	0.1
Guards And Watch Guards	63047	423	0.4

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Beverage Preparation And Service Occupations	65000	29	*
Janitors And Cleaners	67005	934	0.8
Elevator Operators	67011	11	*
All Other Cleaning And Building Service Workers, Except Private Households	67099	29	*
All Other Service Workers	69999	25	*
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	635	0.6
First Line Supervisors And Manager/Supervisors - Agricultural, Forestry, Fishing, And Related Workers	72002	69	0.1
Fallers And Buckers	73002	150	0.1
Log Handling Equipment Operators	73008	100	0.1
Logging Tractor Operators	73011	175	0.2
All Other Timber Cutting And Related Logging Workers	73099	6	*
Forest And Conservation Workers	79002	13	*
Log Graders And Scalers	79008	48	0.1
Gardeners And Groundskeepers, Except Farm	79014	41	*
All Other Agricultural, Forestry, Fishing, And Related Workers	79999	33	*
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	71,688	63.6
First Line Supervisors and Manager/Supervisors-Mechanics, Installers And Repairers	81002	172	0.2
First Line Supervisors And Manager/Supervisors Construction Trades And Extractive Workers	81005	33	*
First Line Supervisors And Manager/Supervisors Production And Operating Workers	81008	3,633	3.2

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	104	0.1
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	265	0.2
All Other First Line Supervisors And Manager/Supervisors-Production, Construction, Maintenance And Related	81099	18	*
Precision Inspectors, Testers, And Graders	83002	1,950	1.7
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	3,393	3.0
Machinery Maintenance Mechanics	85110	740	0.7
Machinery Maintenance Mechanics-Textile Machines	85112	137	0.1
Machinery Maintenance Mechanics-Sewing Machines	85113	52	0.1
Machinery Maintenance Mechanics-Water Or power Generation Plant	85118	160	0.1
All Other Machinery Maintenance Mechanics	85119	122	0.1
Millwrights	85123	171	0.2
Machinery Maintenance Workers	85128	185	0.2
Maintenance Repairers, General Utility	85132	1,287	1.1
Automotive Mechanics	85302	55	0.1
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	22	*
Mobile Heavy Equipment Mechanics, Except Engines	85314	17	*
Data Processing Equipment Repairers	85705	65	0.1
Electronics Repairers, Commercial And Industrial Equipment	85717	15	*
Heating, Air Conditioning, And Refrigeration Mechanics And Installers	85902	23	*
Precision Instrument Repairers	85905	128	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Mechanical Control And Value Installers And Repairers	85928	14	*
Riggers	85935	45	*
Coin And Vending Machine Servicers And Repairers	85947	30	*
Menders	85956	50	0.1
All other Mechanics, Installers And Repairers	85999	102	0.1
Carpenters	87102	375	0.3
Electricians	87202	338	0.3
Painters And Paperhangers	87402	147	0.1
Plumbers And Pipefitters	87502	143	0.1
All Other Construction Trades Workers	87899	104	0.1
Tool And Die Makers	89102	729	0.6
Precision Instrument Makers	89105	41	*
Machinists	89108	1,718	1.5
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	274	0.2
Pattern And Model Makers, Metal	89114	42	*
Precision Layout Workers, Metal	89117	44	*
Sheet Metal Workers	89132	325	0.3
All Other Precision Metal Workers	89199	154	0.1
Precision Wood Workers	89300	53	0.1
Pattern And Model Makers-Wood	89302	32	*
Wood Machinists	89308	126	0.1
Cabinetmakers And Bench Carpenters	89311	426	0.4
Furniture Finishers	89314	72	0.1
All Other Precision Wood-Workers	89399	46	*
Fabric And Apparel Patternmakers, And Layout Workers	89502	47	*
Custom Tailors And Sewers	89505	25	*
Shoe And Leather Workers And Repairers-Precision	89511	338	0.3
Precision Dyers	89521	13	*
All other Precision Textile, Apparel, And Furnishings Workers	89599	60	0.1
Precision Compositors, Type-setters, And Arrangers	89702	125	0.1
Job Printers	89705	35	*
Precision Lithography And Photoengraving Workers	89708	248	0.2

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bookbinders	89711	32	*
All Other Precision Printing Workers	89799	127	0.1
Bakers, Manufacturing	89805	30	*
All Other Precision Food And Tobacco Workers	89899	22	*
Precision Foundry Mold And Core Makers	89902	176	0.2
Precision Molders, Shapers, Casters, And Carvers, Except Jewelry And Foundry	89905	16	*
Precision Detail Design Decorators And Painters	89911	69	0.1
Precision Optical Goods Workers	89917	33	*
All Other Precision Workers	89999	282	0.2
Sawing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91102	60	0.1
Lathe And Turning Machine Tool Setters And Set-Up Operators, Metal And Plastic	91105	523	0.5
Drilling And Boring Machine Tool Setters And Set-Up Operators, Metal And Plastic	91108	299	0.3
Milling And Planing Machine Setters And Set-Up Operators, Metal And Plastic	91111	143	0.1
Grinding, Lapping, And Buffing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91114	703	0.6
Machine Tool Cutting Operators And Tenders, Metal And Plastic	91117	721	0.6
Punching Machine Setters And Set-Up Operators, Metal And Plastic	91302	369	0.3
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	246	0.2
Shear And Slitter Machine Setters And Set-Up Operators, Metal And Plastic	91308	65	0.1
Extruding And Drawing Machine Setters And Set-Up Operators, Metal And Plastic	91311	130	0.1
Rolling Machine Setters And Set-Up Operators, Metal And Plastic	91314	43	*

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Forming Operators And Tenders, Metal And Plastic	91321	901	0.8
Numerical Control Machine Tool Operators And Tenders, Metal And Plastic	91502	513	0.5
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	267	0.2
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	431	0.4
Welding Machine Setters And Set-Up Operators	91702	163	0.1
Welding Machine, Operators And Tenders	91705	42	*
Soldering And Brazing Machine Setters And Set-Up Operators	91708	54	0.1
Soldering And Brazing Machine Operators And Tenders	91711	95	0.1
Metal Fabricators, Structural Metal Products	91714	31	*
Plastic Molding & Casting Machine Setters And Set-Up Operators	91902	230	0.2
Plastic Molding And Casting Machine Operators And Tenders	91905	559	0.5
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	170	0.2
Metal Molding, Coremaking And Casting Machine Operators And Tenders	91911	56	0.1
Foundry Mold Assembly And Shakeout Workers	91914	43	*
Electrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91917	24	*
Electrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91921	119	0.1
Nonelectrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91923	57	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Nonelectrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91926	49	0.1
Heating Equipment Setters And Set-Up Operators, Metal And Plastic	91928	11	*
Heat Treating, Annealing, And Tempering Machine Operators And Tenders, Metal And Plastic	91932	74	0.1
Furnace Operators And Tenders	91935	135	0.1
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	70	0.1
All Other Metal And Plastic Machine Operators And Tenders	92198	823	0.7
Sawing Machine Setters And Set-Up Operators	92302	60	0.1
Head Sawyers	92305	95	0.1
Sawing Machine Operators And Tenders	92308	395	0.4
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	234	0.2
Woodworking Machine Operators And Tenders, Except Sawing	92314	545	0.5
Printing Press Machine Setters And Set-Up Operators	92510	16	*
Offset Lithographic Press Setters And Set-Up Operators	92512	233	0.2
Letterpress Setters And Set-Up Operators	92515	80	0.1
Photoengraving And Lithographing Photographers	92521	74	0.1
Specialty Materials Printing Machine Setters And Set-Up Operators	92522	98	0.1
Screen Printing Machine Setters And Set-Up Operators	92524	41	*
Bindery Machine Setters And Set-Up Operators	92525	62	0.1
All Other Printing Related Setters And Set-Up Operators	92529	40	*
Typesetting And Composing Machine Operators And Tenders	92541	149	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Printing Press Machine Operators And Tenders	92543	473	0.4
Bindery Machine Operators	92546	156	0.1
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	216	0.2
Textile Machine Setters And Set-Up Operators	92702	215	0.2
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,180	0.1
Extruding And Forming Machine Operators And Tenders, Synthetic Or Glass Fibers	92708	39	*
Textile Draw-Out Machine Operators And Tenders	92711	63	0.1
Textile Bleaching And Dyeing Machine Operators And Tenders	92714	238	0.2
Sewing Machine Operators, Garment	92717	1,318	1.2
Sewing Machine Operators, Non-Garment	92721	402	0.4
Shoe Sewing Machine Operators And Tenders	92723	2,071	1.8
Pressing Machine Operators And Tenders	92728	119	0.1
Electronic Semiconductor Processors	92902	36	*
Paper Goods Machine Setters And Set-Up Operators	92914	367	0.3
Cooking Machine Operators And Tenders, Food And Tobacco	92917	39	*
Roasting, Baking, And Drying Machine Operators And Tenders, Food And Tobacco	92921	37	*
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	105	0.1
Boiler Operators And Tenders	92926	117	0.1
Dairy Processing Equipment Operators, Including Setters	92932	13	*
Chemical Equipment Controllers And Operators	92935	94	0.1
Chemical Equipment Tenders	92938	50	0.1
Cutting And Slicing Machine Setters And Set-Up Operators And Tenders	92941	122	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Cutting And Slicing Machine Operators And Tenders	92944	641	0.6
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	251	0.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	325	0.3
Cementing And Gluing Machine Operators And Tenders	92956	874	0.8
Cleaning, Washing, And Pickling Equipment Operators and Tenders	92958	65	0.1
Separating, Filtering, Clarifying Precipitating, And Still Machine Operators And Tenders	92962	48	0.1
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	454	0.4
Extruding, Forming, Pressing, And Compacting Machine Setters And Set-Up Operators	92968	67	0.1
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	821	0.7
Packaging And Filling Machine Operators And Tenders	92974	698	0.6
All Other Machine Setters And Set-Up Operators	92997	507	0.4
All Other Machine Operators And Tenders	92998	1,866	1.7
Machine Builders And Other Precision Machine Assemblers	93105	502	0.4
Fitters, Structural Metal-Precision	93108	65	0.1
Electromechanical Equipment Assemblers-Precision	93111	848	0.8
Electrical And Electronic Equipment Assemblers-Precision	93114	2,517	2.2
Watch, Clock, And Chronometer Assemblers, Adjusters, And Calibrators-Precision	93117	207	0.2
All Other Precision Assemblers, Metal	93197	56	0.1
Machine Assemblers	93902	970	0.8
Electrical And Electronic Assemblers	93905	2,646	2.3

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Coil Winders, Tapers, And Finishers	93908	620	0.6
Welders And Cutters	93914	538	0.5
Solderers And Brazers	93917	230	0.2
Pressers, Hand	93921	80	0.1
Sewers, Hand	93923	328	0.3
Cutters And Trimmers, Hand	93926	494	0.4
Portable Machine Cutters	93928	106	0.1
Meat, Poultry, And Fish Cutters And Trimmers-Hand	93938	139	0.1
Metal Pourers And Casters, Basic Shapes	93941	104	0.1
Moulders And Casters, Hand	93944	97	0.1
Painting, Coating, And Decorating Workers, Hand	93947	127	0.1
Grinding And Polishing Workers, Hand	93953	520	0.5
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	4,685	4.2
All other Hand Workers	93999	1,908	1.7
Chemical Plant And System Operators	95008	12	*
Stationary Engineers	95032	48	0.1
All Other Plant And System Operators	95099	52	0.1
Truck Drivers, Heavy Or Tractor Trailer	97102	558	0.5
Truck Drivers, Light-Include Delivery And Route Workers	97105	203	0.2
Driver/Sales Workers	97117	275	0.3
All Other Motor Vehicle Operators	97199	39	*
Railroad Brake, Signal, And Switch Operators	97317	10	*
All Other Transportation And Related Workers	97899	24	*
Hoist And Winch Operators	97941	12	*
Crane And Tower Operators	97944	51	0.1
Industrial Truck And Tractor Operators	97947	684	0.6
Conveyor Operators And Tenders	97951	38	*
All Other Material Moving Equipment Operators	97999	73	0.1
Mechanic And Repairer Helpers	98102	96	0.1

STAFFING PATTERNS

ALL MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Feeders And Offbearers	98502	1,749	1.6
Freight, Stock, And Material Movers, Hand	98700	1,254	1.1
Hand Packers And Packagers	98902	1,806	1.6
Vehicle Washers And Equipment Cleaners	98905	39	*
All Other Helpers, Laborers, And Material Movers, Hand	98999	2,595	2.3

* Less than 0.05 percent

SUMMARY

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING

(SIC 24, 25, 32 - 39)

There were 72,221 wage and salary workers employed in the durable goods manufacturing sector during the occupational survey period of the second quarter of 1983. More than half of these jobs were in the production, construction, operating, maintenance and material handling occupational group. The next two largest occupational groups were the professional, paraprofessional and technical and clerical groups with 18 and 13 percent of the total employment in this sector respectively.

Assemblers and fabricators of all types, including machine, precision and electrical and electronic accounted for 10,378 workers or 14.4 percent of the total employment. Electrical and electronic engineers and first line supervisors of production workers accounted for 2,642 and 2,380 workers respectively.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	CODE	OCCUPATIONAL TITLE	EMPLOYMENT	PERCENT OF TOTAL
1	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	3,397	4.7
2	93905	Electrical and Electronic Assemblers	2,646	3.7
3	22126	Electrical and Electronics Engineers	2,642	3.7
4	93114	Electrical and Electronic Equipment Assemblers-Precision	2,517	3.5
5	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	2,380	3.3
6	55100	Secretaries	2,170	3.0
7	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	2,062	2.9
8	19005	General Managers and Top Executives	1,893	2.6
9	83002	Precision Inspectors, Testers, and Graders	1,857	2.6
10	22505	Electrical and Electronic Engineering Technicians and Technologists	1,533	2.1
11	89108	Machinists	1,486	2.1
12	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	1,134	1.6
13	93902	Machine Assemblers	970	1.3
14	58008	Production, Planning, and Expediting Clerks	922	1.3
15	93111	Electromechanical Equipment Assemblers-Precision	848	1.2
16	15014	Industrial Production Managers	809	1.1
17	55338	Bookkeeping, Accounting and Auditing Clerks	796	1.1
18	85132	Maintenance Repairers, General Utility	791	1.1
19	22514	Drafters	782	1.1
20	98502	Machine Feeders and Offbearers	759	1.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		72,221	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	5,355	7.4
Financial Managers	13002	533	0.7
Personnel, Training, And Labor Relations Managers	13005	205	0.3
Purchasing Managers	13008	178	0.3
Marketing, Advertising, And Public Relations Managers	13011	522	0.7
Administrative Services Managers	13014	183	0.3
Industrial Production Managers	15014	809	1.1
General Managers And Top Executives	19005	1,893	2.6
All Other Managers And Administrators	19999	1,032	1.4
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	12,980	18.0
Accountants And Auditors	21114	755	1.0
Budget Analysts	21117	59	0.1
All Other Financial Specialists	21199	105	0.1
Purchasing Agents, Except Farm Products	21308	381	0.5
Personnel, Training, And Labor Relations Specialists	21511	205	0.3
Cost Estimators	21902	157	0.2
All other Management Support Workers	21999	584	0.8
Metallurgists And Metallurgical, Ceramic, And Materials Engineers	22105	76	0.1
Chemical Engineers	22114	38	0.1
Civil Engineers, Including Traffic	22121	12	*
Agricultural Engineers	22123	50	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Electrical And Electronics Engineers	22126	2,642	3.7
Industrial Engineers, Except Mining	22128	514	0.7
Safety Engineers, Except Mining	22132	43	0.1
Mechanical Engineers	22135	664	0.9
All other Engineers	22199	768	1.1
Civil Engineering Technicians And Technologists	22502	75	0.1
Electrical And Electronic Engineering Technicians And Technologists	22505	1,533	2.1
Industrial Engineering, Technicians And Technologists	22508	80	0.1
Mechanical Engineering Technicians And Technologists	22511	247	0.3
Drafters	22514	782	1.1
All other Engineering And Related Technicians And Technologists	22599	530	0.7
Physicists And Astronomers	24102	23	*
Chemists	24105	35	0.1
All Other Physical Scientists	24199	46	0.1
Chemical Technicians And Technologists, Except Health	24505	99	0.1
All Other Physical And Life Science Technicians And Technologists	24599	5	*
Systems Analysts, Electronic Data Processing	25102	253	0.4
Computer Programmers	25105	688	1.0
Computer Programmer Aides	25108	109	0.2
Programmers-Numerical, Tool, And Process Control	25111	74	0.1
Operations And Systems Researchers And Analysts, Except Computer	25302	31	*
Lawyers	28108	12	*

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Health Practitioners, Technologists, Technicians And Related Health Occupations	32000	71	0.1
All Other Health Professionals, Para-Professionals, And Technicians	32999	44	0.1
Writers And Editors	34002	32	*
Technical Writers	34005	263	0.4
Designers	34038	154	0.2
All Other Professional, Para-professional And Technical Workers	39999	741	1.0
SALES OCCUPATIONS	40000-49999	1,533	2.1
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	153	0.2
Sales Engineers	49002	236	0.3
Sales Representatives, Scientific And Related Products And Services	49005	477	0.7
Other Sales Representatives	49008	485	0.7
All Other Sales And Related Workers	49999	182	0.2
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	9,373	13.0
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	243	0.3
Secretaries	55100	2,170	3.0
Stenographers	55302	83	0.1
Receptionists And Information Clerks	55305	63	0.1
Typists	55308	497	0.7
Typists, Word Processor	55311	90	0.1
Personnel Clerks	55314	93	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
File Clerks	55321	71	0.1
Order Clerks	55323	334	0.5
Procurement Clerks	55326	108	0.1
Statistical Clerks	55328	19	*
Bookkeeping, Accounting And Auditing Clerks	55338	796	1.1
Payroll And Timekeeping Clerks	55341	145	0.2
Billing, Cost, And Rate Clerks	55344	123	0.2
General Office Clerks	55347	684	1.0
Billing, Posting, And Calculating Machine Operators	56002	21	*
Computer Operators	56011	190	0.3
Peripheral EDP Equipment Operators	56014	52	0.1
Data Entry Keyers	56017	281	0.4
All Other Office Machine Operators	56099	63	0.1
Switchboard Operators	57102	96	0.1
Production, Planning, And Expediting Clerks	58008	922	1.3
Weighers, Measurers, Checkers, And Samplers-Recordkeeping	58017	18	*
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	1,134	1.6
Traffic, Shipping, And Receiving Clerks	58028	813	1.1
All other Material Recording, Scheduling, And Distributing Workers	58099	149	0.2
All Other Clerical And Administrative Support Workers	59999	115	0.2
SERVICES OCCUPATIONS	60000-69999	1,110	1.5
First Line Supervisors And Manager/Supervisors-Service	61000	107	0.1
Guards And Watch Guards	63047	340	0.5

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Food Beverage Preparation And Service Occupations	65000	15	*
Janitors And Cleaners	67005	640	0.9
All Other Cleaning And Building Service Workers, Except Private Households	67099	2	*
All Other Service Workers	69999	6	*
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	585	0.8
First Line Supervisors And Manager/Supervisors-Agricultural, Forestry, Fishing And Related Workers	72002	68	0.1
Fallers And Buckers	73002	150	0.2
Log Handling Equipment Operators	73008	100	0.1
Logging Tractor Operators	73011	167	0.2
All Other Timber Cutting And Related Logging Workers	73099	6	*
Forest And Conservation Workers	79002	13	*
Log Graders And Scalers	79008	48	0.1
Gardeners And Groundskeepers, Except Farm	79014	33	0.1
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	41,285	57.2
First Line Supervisors And Manager/Supervisors-Mechanics, Installers And Repairers	81002	96	0.1
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	2,380	3.3

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	36	0.1
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	177	0.3
All Other First Line Supervisors And Manager/Supervisors-Production, Construction, Maintenance And Related	81099	24	*
Precision Inspectors, Testers, And Graders	83002	1,857	2.6
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	2,062	2.9
Machinery Maintenance Mechanics	85110	455	0.6
Millwrights	85123	103	0.1
Machinery Maintenance Workers	85128	78	0.1
Maintenance Repairers, General Utility	85132	791	1.1
Automotive Mechanics	85302	27	*
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	12	*
Mobile Heavy Equipment Mechanics, Except Engines	85314	17	*
Data Processing Equipment Repairers	85705	65	0.1
Electronics Repairers, Commercial And Industrial Equipment	85717	15	*
Heating, Air Conditioning, And Refrigeration Mechanics And Installers	85902	14	*
Precision Instrument Repairers	85905	94	0.1
Riggers	85935	27	*
All Other Mechanics, Installers And Repairers	85999	66	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Carpenters	87102	339	0.5
Electricians	87202	194	0.3
Painters And Paperhangers	87402	42	0.1
Plumbers And Pipefitters	87502	46	0.1
All Other Construction Trades Workers	87899	75	0.1
Tool And Die Makers	89102	591	0.8
Precision Instrument Makers	89105	41	0.1
Machinists	89108	1,486	2.1
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	196	0.3
Pattern And Model Makers, Metal	89114	42	0.1
Precision Layout Workers, Metal	89117	44	0.1
Sheet Metal Workers	89132	311	0.4
All Other Precision Metal Workers	89199	148	0.2
Precision Woodworkers	89300	30	*
Pattern And Model Makers-Wood	89302	32	*
Wood Machinists	89308	126	0.2
Cabinetmakers And Bench Carpenters	89311	426	0.6
Furniture Finishers	89314	72	0.1
All Other Precision Woodworkers	89399	46	0.1
All other Precision Printing Workers	89799	1	*
Precision Foundry Mold And Core Makers	89902	176	0.2
Precision Molders, Shapers, Casters, And Carvers, Except Jewelry And Foundry	89905	16	*
Precision Detail Design Decorators And Painters	89911	34	0.1
Precision Optical Goods Workers	89917	33	*
All Other Precision Workers	89999	153	0.2
Sawing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91102	60	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Lathe And Turning Machine Tool Setters And Set-Up Operators, Metal And Plastic	91105	523	0.7
Drilling And Boring Machine Tool Setters And Set-Up Operators, Metal And Plastic	91108	299	0.4
Milling And Planing Machine Setters And Set-Up Operators, Metal And Plastic	91111	143	0.2
Grinding, Lapping, And Buffing Machine Tool Setters And Set-Up Operators, Metal And Plastic	91114	703	1.0
Machine Tool Cutting Operators And Tenders, Metal And Plastic	91117	721	1.0
Punching Machine Setters And Set-Up Operators, Metal And Plastic	91302	367	0.5
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	206	0.3
Shear And Slitter Machine Setters And Set-Up operators, Metal And Plastic	91308	65	0.1
Extruding And Drawing Machine Setters And Set-Up Operators, Metal And Plastic	91311	124	0.2
Rolling Machine Setters And Set-Up Operators, Metal And Plastic	91314	32	*
Machine Forming Operators And Tenders, Metal And Plastic	91321	528	0.7
Numerical Control Machine Tool Operators And Tenders, Metal And Plastic	91502	505	0.7
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	200	0.3

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	385	0.5
Welding Machine Setters And Set-Up Operators	91702	163	0.2
Welding Machine Operators And Tenders	91705	42	0.1
Soldering And Brazing Machine Setters And Set-Up Operators	91708	54	0.1
Soldering And Brazing Machine Operators And Tenders	91711	95	0.1
Metal Fabricators, Structural Metal Products	91714	31	*
Plastic Molding And Casting Machine Operators And Tenders	91905	10	*
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	170	0.2
Metal Molding, Coremaking And Casting Machine Operators And Tenders	91911	56	0.1
Foundry Mold Assembly And Shakeout Workers	91914	43	0.1
Electrolytic Plating And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91917	24	*
Electrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91921	114	0.2
Nonelectrolytic Plating And And Coating Machine Setters And Set-Up Operators, Metal And Plastic	91923	57	0.1
Nonelectrolytic Plating And Coating Machine Operators And Tenders, Metal And Plastic	91926	49	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Heating Equipment Setters And Set-Up Operators, Metal And Plastic	91928	11	*
Heat Treating, Annealing And Tempering Machine Operators And Tenders, Metal And Plastic	91932	71	0.1
Furnace Operators And Tenders	91935	135	0.2
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	72	0.1
All Other Metal And Plastic Machine Operators And Tenders	92198	779	1.1
Sawing Machine Setters And Set-Up Operators	92302	60	0.1
Head Sawyers	92305	95	0.1
Sawing Machine Operators And Tenders	92308	395	0.6
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	234	0.3
Woodworking Machine Operators And Tenders, Except Sawing	92314	545	0.8
Printing Press Machine Setters And Set-Up Operators	92510	13	*
Screen Printing Machine Setters And Set-Up Operators	92524	37	0.1
All other Printing, Binding, And Related Machine Operators And Tenders	92549	49	0.1
Sewing Machine Operators, Non-Garment	92721	121	0.2
Electronic Semiconductor Processors	92902	36	0.1
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	31	*
Boiler Operators And Tenders	92926	30	*

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Cutting And Slicing Machine Setters And Set-Up Operators And Tenders	92941	23	*
Cutting And Slicing Machine Operators And Tenders	92944	192	0.3
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	128	0.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	241	0.3
Cementing And Gluing Machine Operators And Tenders	92956	23	*
Cleaning, Washing, And Pickling Equipment Operators And Tenders	92958	53	0.1
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	108	0.1
Extruding, Forming, Pressing, And Compacting Machine Setters, And Set-Up Operators	92968	26	*
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	238	0.3
Packaging And Filling Machine Operators And Tenders	92974	167	0.2
All Other Machine Setters And Set-Up operators	92997	94	0.1
All Other Machine Operators And Tenders	92998	1,110	1.5
Machine Builders And Other Precision Machine Assemblers	93105	502	0.7
Fitters, Structural Metal-Precision	93108	65	0.1
Electromechanical Equipment Assemblers-Precision	93111	848	1.2
Electrical And Electronic Equipment Assemblers-Precision	93114	2,517	3.5

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Watch, Clock, And Chronometer Assemblers, Adjusters, And Calibrators-Precision	93117	207	0.3
All Other Precision Assemblers, Metal	93197	56	0.1
Machine Assemblers	93902	970	1.3
Electrical And Electronic Assemblers	93905	2,646	3.7
Coil Winders, Tapers, And Finishers	93908	620	0.9
Welders And Cutters	93914	498	0.7
Solderers And Brazers	93917	230	0.3
Metal Pourers And Casters, Basic Shapes	93941	104	0.1
Molders And Casters, Hand	93944	37	0.1
Painting, Coating, And Decorating Workers, Hand	93947	113	0.2
Grinding And Polishing Workers, Hand	93953	520	0.7
Assemblers And Fabricators-Except Machine, Electrical, Electronic, And Precision	93956	3,397	4.7
All Other Hand Workers	93999	536	0.7
All Other Plant And System Operators	95099	17	*
Truck Drivers, Heavy Or Tractor Trailer	97102	387	0.5
Truck Drivers, Light-Include Delivery And Route Workers	97105	74	0.1
All Other Motor Vehicle Operators	97199	23	*
All Other Transportation And Related Workers	97899	14	*
Hoist And Winch Operators	97941	10	*
Crane And Tower Operators	97944	38	0.1
Industrial Truck And Tractor Operators	97947	379	0.5
All Other Material Moving Equipment Operators	97999	20	*
Mechanic And Repairer Helpers	98102	47	0.1

STAFFING PATTERNS

DURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machine Feeders And Offbearers	98502	759	1.1
Freight, Stock, And Material Movers, Hand	98700	612	0.8
Hand Packers And Packagers	98902	473	0.7
All Other Helpers, Laborers, And Material Movers, Hand	98999	584	0.8

* Less than 0.05 percent

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planning mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. This group does not include establishments producing furniture, musical instruments, toys, caskets, and playground equipment.

There were 4,708 wage and salary workers in this industry during the survey month of May 1983, an increase of 63 workers from the previous survey in 1980.

Our sample consisted of 130 units representing an employment of 3,977. Usable responses were received from 94 units or 72 percent of the units sampled. The reported employment was 3,124 or 79 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92314	Woodworking Machine Operators and Tenders, Except Sawing	309
2	92308	Sawing Machine Operators and Tenders	283
3	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	225
4	19005	General Managers and Top Executives	222
5	87102	Carpenters	220
6	98502	Machine Feeders and Offbearers	216
7	89311	Cabinetmakers and Bench Carpenters	169
8	73011	Logging Tractor Operators	167
9	98902	Hand Packers and Packagers	154
10	73002	Fallers and Buckers	150

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	48.9
2	55338	Bookkeeping, Accounting and Auditing Clerks	33.7
3	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	28.2
	92308	Sawing Machine Operators and Tenders	28.2
5	55100	Secretaries	23.4
	92305	Head Sawyers	23.4

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		4,708	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	287	6.1				
Financial Managers	13002	26	0.6	19	31	21	5.5
Marketing, Advertising And Public Relations Managers	13011	12	0.3	24	15	9	2.7
Industrial Production Managers	15014	11	0.2	29	14	8	2.0
General Managers And Top Executives	19005	222	4.7	8	240	204	48.9
All Other Managers And Administrators	19999	16	0.3	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	83	1.8				
Accountants And Auditors	21114	32	0.7	26	40	24	9.6
All Other Financial Specialists	21119	4	0.1	NA	-	-	NA
All Other Management Support Workers	21999	13	0.3	NA	-	-	NA
All Other Engineers	22199	5	0.1	NA	-	-	NA
Drafters	22514	18	0.4	21	22	14	3.4
All Other Engineering And Related Technicians And Technologists	22599	3	*	NA	-	-	NA
All Other Life Scientists	24399	3	*	NA	-	-	NA
All Other Professional, Paraprofessional And Technical Workers	39999	5	0.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	111	2.4				
Sales Representatives, Scientific And Related Products And Services-Except Retail	49005	10	0.2	27	13	7	2.7
Other Sales Representatives, Except Retail	49008	83	1.8	21	100	66	13.1

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Sales And Related Workers	49999	18	0.4	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	398	8.4				
Secretaries	55100	78	1.7	12	87	69	23.4
Bookkeping, Accounting And Auditing Clerks	55338	114	2.4	10	126	102	33.7
General Office Clerks	55347	81	1.7	12	91	71	21.3
All Other Office Machine Operators	56099	3	*	NA	-	-	NA
Production, Planning And Expediting Clerks	58008	11	0.2	11	12	10	3.4
Traffic, Shipping And Receiving Clerks	58028	75	1.6	19	89	61	18.6
All other Material Recording, Scheduling And Distributing Workers	58099	16	0.3	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	20	0.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	98	2.1				
Guards And Watch Guards	63047	34	0.7	22	42	26	6.2
Janitors And Cleaners	67005	41	0.9	12	46	36	13.7
All Other Service Workers	69999	23	0.5	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	552	11.7				
First Line Supervisors-Agricultural, Forestry, Fishing And Related Occupations	72002	68	1.4	20	81	55	10.3
Fallers And Buckers	73002	150	3.2	23	184	116	8.9
Log Handling Equipment Operators	73008	100	2.1	17	117	83	17.9

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Logging Tractor Operators	73011	167	3.6	11	185	149	12.4
All Other Timber Cutting And Related Logging Workers	73099	6	0.1	NA	-	-	NA
Log Graders And Scalers	79008	48	1.0	14	55	41	15.8
All Other Agricultural, Forestry, Fishing And Related Workers	79999	13	0.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,179	67.5				
First Line Supervisors And Manager/Supervisiors-Production And Operating Workers	81008	105	2.2	11	116	94	28.2
First Line Supervisors And Manager/Supervisors-Helpers, Laborers And Material Movers, Hand	81017	13	0.3	42	18	8	2.0
Production Inspectors, Testers, Graders, Sorters, Samplers And Weighers	83005	125	2.7	14	143	107	16.5
Machinery Maintenance Mechanics	85110	50	1.1	14	57	43	14.4
Machinery Maintenance Workers	85128	20	0.4	26	25	15	5.5
Maintenance Repairers, General Utility	85132	61	1.3	10	67	55	16.5
All Other Mechanics, Installers And Repairers	85999	28	0.6	NA	-	-	NA
Carpenters	87102	220	4.7	16	255	185	8.2
Electricians	87202	12	0.3	23	15	9	2.7
All Other Construction Trades Workers	87899	75	1.6	NA	-	-	NA
All Other Precision Metal Workers	89199	10	0.2	NA	-	-	NA
Wood Machinists	89308	94	2.0	26	118	70	11.0
Cabinetmakers And Bench Carpenters	89311	169	3.6	17	198	140	8.2
Furniture Finishers	89314	52	1.1	25	65	39	2.0
All Other Precision Woodworkers	89399	10	0.2	NA	-	-	NA

STAFFING PATTERNS

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

(SIC 24)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	16	0.3	NA	-	-	NA
Sawing Machine Setters And Set-Up Operators	92302	36	0.8	21	44	28	5.5
Head Sawyers	92305	95	2.0	8	103	87	23.4
Sawing Machine Operators And Tenders	92308	283	6.0	10	311	255	28.2
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	138	2.9	12	155	121	13.1
Woodworking Machine Operators And Tenders, Except Sawing	92314	309	6.6	8	333	285	17.2
Furnace, Kiln, Oven, Drier Or Kettle Operators	92923	14	0.3	17	16	12	6.8
Coating, Painting, Spraying Machine Setters And Set-Up Operators	92951	15	0.3	20	18	12	2.7
Coating, Painting, Spraying Machine Operators And Tenders	92953	32	0.7	19	38	26	6.8
Packaging And Filling Machine Operators And Tenders	92974	15	0.3	19	18	12	2.7
All Other Machine Operators And Tenders	92998	59	1.3	NA	-	-	NA
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	225	4.8	15	259	191	6.2
All Other Hand Workers	93999	37	0.8	NA	-	-	NA
Truck Drivers Heavy Or Tractor Trailer	97102	151	3.2	14	172	130	27.5
All Other Motor Vheicle Operators	97199	1	*	NA	-	-	NA
All Other Transportation And Related Workers	97899	4	*	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	83	1.7	8	90	76	19.3
Machine Feeders And Offbearers	98502	216	4.6	14	245	187	15.8
Freight, Stock And Material Movers, Hand	98700	136	2.8	13	154	118	10.3
Hand Packers And Packagers	98902	154	3.3	12	173	135	12.4
All other Helpers, Laborers, And Material Movers, Hand	98999	116	2.5	NA	-	-	NA

* Less than 0.5 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Automotive Mechanics
Boiler Operators, Low Pressure
Bus and Truck Mechanics, and Diesel Specialists
Carpet Cutters, Diagrammers and Seamers
Computer Programmers
Computer Programmer Aides
Construction Trades and Extractive Worker Helpers
Cost Estimaters
Crushing, Grinding, Mixing and Blending Machine Operators and Tenders
Cutting and Slicing Machine Operators and Tenders
Data Entry Keyers
Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic
Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
Glaziers, Manufacturing
Grinding and Polishing Workers, Hand
Industrial Engineers, Except Safety
Interior Designers
Installers and Repairers-Manufactured Buildings, Mobile Homes and Travel Trailers
Machinists
Mechanical Engineers
Mechanics and Repairer Helpers
Mobile Heavy Equipment Mechanics, Except Engines
Order Clerks
Painters and Paperhangers
Painting, Coating, and Decorating Workers, Hand
Pattern and Model Makers, Wood
Payroll and Timekeeping Clerks
Personnel, Training and Labor Relations Managers
Personnel, Training and Labor Relations Specialists
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Stock Clerks-Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Truck Drivers, Light
Typists

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FURNITURE AND FIXTURES

(SIC 25)

This major group includes establishments primarily engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures.

During the survey month of May 1983 there were 1,365 wage and salary workers in the furniture and fixtures industry, a reduction of 516 workers from the previous survey in 1980.

Our sample consisted of 31 units representing an employment of 1,399. Usable responses were received from 22 units or 71 percent of the units sampled. The reported employment was 1,033 or 74 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	102
2	89311	Cabinetmakers and Bench Carpenters	99
3	92314	Woodworking Machine Operators and Tenders, Except Sawing	88
4	98502	Machine Feeders and Offbearers	66
5	92308	Sawing Machine Operators and Tenders	64
6	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	61
7	92311	Woodworking Machine Setters and Set-Up Operators, Except Sawing	45
8	58028	Traffic, Shipping, and Receiving Clerks	43
9	92953	Coating, Painting, and Spraying Machine Operators and Tenders	37
10	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	32

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	51.9
2	19005	General Managers and Top Executives	48.1
3	55100	Secretaries	40.7
4	85132	Maintenance Repairers, General Utility	37.0
	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic, and Precision	37.0

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,365	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	54	4.0				
General Managers And Top Executives	19005	26	1.9	12	29	23	48.1
All Other Managers And Administrators	19999	28	2.1	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	50	3.7				
All Other Financial Specialists	21199	4	0.3	NA	-	-	NA
All Other Management Support Workers	21999	14	1.0	NA	-	-	NA
All Other Engineers	22199	5	0.4	NA	-	-	NA
Drafters	22514	13	1.0	8	6	4	NA
All Other Engineering And Related Technicians And Technologists	22599	2	0.1	NA	-	-	NA
All Other Professional, Paraprofessional & Technical Workers	39999	12	0.9	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	38	2.8	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	222	16.3				
Secretaries	55100	19	1.4	11	21	17	40.7
General Office Clerks	55347	15	1.1	12	17	13	25.9
All Other Office Machine Operators	56099	19	1.4	NA	-	-	NA
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	32	2.3	27	41	23	11.1
Traffic, Shipping, And Receiving Clerks	58028	43	3.2	24	53	33	33.3
All Other Material Recording, Scheduling and Distribution Workers	58099	13	1.0	NA	-	-	NA

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Clerical And Administrative Support Workers	59999	81	5.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	32	2.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	969	70.9				
First Line Supervisors And Manager/Supervisors Production And Operating Workers	81008	61	4.5	7	65	57	51.9
Maintenance Repairers, General Utility	85132	21	1.5	8	23	19	37.0
All Other Mechanics, Installers And Repairers	85999	9	0.6	NA	-	-	NA
All Other Construction Workers	87899	3	0.2	NA	-	-	NA
All Other Precision Metal Workers	89199	13	1.0	NA	-	-	NA
Wood Machinists	89308	22	1.6	17	26	18	22.2
Cabinetmakers And Bench Carpenters	89311	99	7.3	19	118	80	33.3
All Other Precision Workers	89399	46	3.4	NA	-	-	NA
All Other Precision Workers	89999	12	0.9	NA	-	-	NA
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	33	2.4	NA	-	-	NA
All Other Metal And Plastic Machine Operators And Tenders	92198	8	0.6	NA	-	-	NA
Sawing Machine Operators And Tenders	92308	64	4.7	13	72	56	33.3
Woodworking Machine Setters And Set-Up Operators, Except Sawing	92311	45	3.3	27	57	33	25.9

STAFFING PATTERNS

FURNITURE AND FIXTURES

(SIC 25)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Woodworking Machine Operators And Tenders, Except Sawing	92314	88	6.4	18	103	73	22.2
Coating, Painting, And Spraying Machine Operators And Tenders	92953	37	2.7	26	47	27	25.9
Cementing And Gluing Machine Operators And Tenders	92956	16	1.2	25	20	12	22.2
All other Machine Setters And Set-Up Operators	92997	47	3.4	NA	-	-	NA
All Other Machine Operators And Tenders	92998	32	2.3	NA	-	-	NA
Grinding, And Polishing Workers, Hand	93953	28	2.1	33	37	19	11.1
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	102	7.5	18	121	83	37.0
All Other Hand Workers	93999	22	1.6	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	10	0.7	13	11	9	18.5
All Other Motor Vehicle Operators	97199	3	0.2	NA	-	-	NA
All Other Transportation And Related Workers	97899	11	0.8	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	5	0.4	NA	-	-	NA
Machine Feeders And Offbearers	98502	66	4.8	23	81	51	14.8
Freight, Stock, And Material Movers, Hand	98700	22	1.6	15	25	19	14.8
Hand Packers And Packagers	98902	22	1.6	20	26	18	11.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	22	1.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

- Accountants and Auditors
- Administrative Service Managers
- Billing, Cost and Rate Clerks
- Boiler Operators, Low Pressure
- Bookkeeping, Accounting and and Auditing Clerks
- Carpenters
- Coating, Painting, and Spraying Machine Setters and Set-Up Operators
- Computer Programmer Aides
- Cost Estimators
- Data Entry Keyers
- Designers
- Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic
- Electricians
- File Clerks
- Financial Managers
- First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers
- First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations
- First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations
- First Line Supervisors and Manager/ Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
- First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
- Guards and Watch Guards
- Industrial Engineers, Except Safety
- Industrial Engineering Technicians and Technologists
- Industrial Production Managers
- Industrial Truck and Tractor Operators
- Machine Forming Operators and Tenders, Metal and Plastic
- Machinery Maintenance Mechanics
- Marketing, Advertising and Public Relations Managers
- Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
- Order Clerks
- Packaging and Filling Machine Operators and Tenders
- Pattern and Model Makers, Wood
- Payroll and Timekeeping Clerks
- Personnel, Training, and Labor Relations Managers
- Personnel, Training, and Labor Relations Specialists
- Precision Inspectors, Testers, and and Graders
- Procurement Clerks
- Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers
- Press, and Press Brake Machine Setters and Set-Up Operators
- Punching Machine Setters and Set-Up Operators, Metal and Plastic
- Purchasing Agents
- Purchasing Managers
- Receptionists and Information Clerks
- Sawing Machine Setters and Set-Up Operators, Metal and Plastic
- Sewing Machine Operators, Non-garment
- Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
- Sheet Metal Workers
- Switchboard Operators
- Systems Analysts
- Textile Machine Operators and Tenders
- Tool Grinders, Filers, Sharpeners and Other Precision Grinders
- Tool and Die Makers
- Truck Drivers, Light
- Typists
- Welders and Cutters
- Welding Machine Setters and Set-Up Operators
- Wood Machinists

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
STONE, CLAY, GLASS AND CONCRETE PRODUCTS

(SIC 32)

This major group includes establishments primarily engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken from the earth in the form of stone, clay and sand.

Firms in this industry during the survey month of May 1983, employed 2,394 wage and salary workers, a decrease of 545 workers or 19 percent from a similar survey taken three years earlier.

Our sample consisted of 41 units representing an employment of 2,460. Usable responses were received from 32 units or 78 percent of the units sampled. The reported employment was 2,206 or 90 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	218
2	92944	Cutting and Slicing Machine Operators and Tenders	183
3	97102	Truck Drivers, Heavy or Tractor Trailer	159
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	134
5	81008	First Line Supervisors and Manager/ Supevisors-Production and Operating Workers	119
6	19005	General Managers and Top Executives	105
7	49005	Sales Representatives, Scientific and Related Products and Services	92
8	98902	Hand Packers and Packagers	85
9	85132	Maintenance Repairers, General Utility	70
10	55100	Secretaries	67

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	67.5
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	57.5
3	55100	Secretaries	50.0
4	55347	General Office Clerks	42.5
5	85132	Maintenance Repairers, General Utility	40.0

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		2,394	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	155	6.5				
General Managers And Top Executives	19005	105	4.4	5	110	100	67.5
All Other Managers And Administrators	19999	50	2.1	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	167	7.0				
Accountants & Auditors	21114	15	0.6	10	17	13	15.0
All Other Financial Specialists	21199	2	0.1	NA	-	-	NA
All Other Management Support Workers	21999	8	0.3	NA	-	-	NA
Mechanical Engineers	22135	15	0.6	0	15	15	12.5
All Other Engineers	22199	14	0.6	NA	-	-	NA
Drafters	22514	32	1.3	7	34	30	22.5
All Other Engineering Technicians & Technologists	22599	38	1.6	NA	-	-	NA
All Other Physical Scientists	24199	5	0.3	NA	-	-	NA
All Other Physical And Life Science Technicians & Technologists	24599	14	0.6	NA	-	-	NA
All Other Professional, Paraprofessional & Technical Workers	39999	24	1.0	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	152	6.3				
Sales Representatives, Scientific And Related Products, & Services	49005	92	3.8	15	106	78	10.0
Other Sales Representatives	49008	30	1.3	17	35	25	25.0
All Other Sales And Related Workers	49999	30	1.3	NA	-	-	NA

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	239	10.0				
Secretaries	55100	67	2.8	4	69	65	50.0
Bookkeeping, Accounting, And Auditing Clerks	55338	28	1.2	18	33	23	37.5
Payroll & Timekeeping Clerks	55341	11	0.5	C	11	11	7.5
General Office Clerks	55347	32	1.3	6	34	30	42.5
All Other Office Machine Operators	56099	10	0.4	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	11	0.5	6	12	10	10.0
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	28	1.2	8	30	26	7.5
Traffic, Shipping, And Receiving Clerks	58028	23	1.0	0	23	23	25.0
All Other Material Recording Scheduling & Distributing Workers	58099	9	0.3	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	20	0.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	42	1.7				
Janitors And Cleaners	67005	32	1.3	2	33	31	22.5
All Other Service Workers	69999	10	0.4	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	4	0.2	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,635	68.3				
First Line Supervisors, And Manager/Supervisors-Production And Operating Workers	81008	119	5.0	4	124	114	57.5
Production Inspectors, Tenders, Graders, Sorters, Samplers, & Weighers	83005	134	5.6	3	138	130	22.5

STAFFING PATTERNS

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

(SIC 32)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Machinery Maintenance Mechanics	85110	26	1.1	5	27	25	15.0
Maintenance Repairers, General Utility	85132	70	2.9	15	81	59	40.0
Automotive Mechanics	85302	15	0.6	23	18	12	15.0
All Other Mechanics, Installers, And Repairers	85999	7	0.3	NA	-	-	NA
All Other Construction Trade Workers	87899	20	0.8	NA	-	-	NA
All Other Precision Metal Workers	89199	6	0.3	NA	-	-	NA
All Other Precision Workers	89999	33	1.4	NA	-	-	NA
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	17	0.7	22	21	13	12.5
Cutting And Slicing Machine Setters And Set-Up Operators	92941	19	0.8	0	19	19	7.5
Cutting And Slicing Machine Operators And Tenders	92944	183	7.6	1	185	181	17.5
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	16	0.7	6	17	15	17.5
Extruding, Forming, Pressing, And Compacting Machine Operators & Tenders	92971	218	9.1	4	227	209	22.5
All Other Machine Setters And Set-Up Operators	92997	56	2.3	NA	-	-	NA
All Other Machine Operators And Tenders	92998	102	4.3	NA	-	-	NA
All Other Hand Workers	93999	133	5.6	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	159	6.6	20	191	127	35.0
All Other Motor Vehicle Operators	97199	4	0.2	NA	-	-	NA
All Other Transportation And Related Workers	97899	3	0.1	NA	-	-	NA
Crane And Tower Operators	97944	21	0.8	22	26	16	15.0
Industrial Truck And Tractor Operators	97947	60	2.5	12	67	53	32.5
All Other Material Moving Equipment Operators	97999	11	0.5	NA	-	-	NA
Freight, Stock, And Material Movers, Hand	98700	25	1.0	20	30	20	17.5
Hand Packers And Packagers	98902	85	3.6	4	88	82	7.5
All Other Helpers, Laborers, And Material Movers, Hand	98999	93	3.9	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Automotive Mechanics
Budget Analysts
Billing Cost and Rate Clerks
Carpenters
Chemists
Chemical Technicians and Technologists, Except Health
Chemical Engineers
Civil Engineers
Computer Programmers
Computer Operators
Concrete and Terrazzo Finishers
Cost Estimators
Conveyor Operators and Tenders
Data Entry Keyers
Designers
Dispatchers
Electrical and Electronic Engineers
Electrical and Electronic Engineering Technicians and Technologists
Electricians
Extractive and Related Workers-Including Blasters
Extruding, Forming, Pressing and Compacting Machine Setters and Set-Up Operators
Financial Managers
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
Guards and Watch Guards
Gardeners and Groundskeepers, Except Farm
Hand Cutters and Trimmers
Hand Grinders and Polishing Workers
Hand Molders and Casters
Health Practitioners, Technologists, Technicians and Related Health Occupations
Hoist and Winch Operators
Industrial Production Managers
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Machinists
Machine Tool Cutting Operators and Tenders, Metal and Plastic
Machine Feeder and Offbearers
Marketing Advertising and Public Relations Managers
Mechanic and Repairer Helpers
Mechanical Engineering Technicians and Technologists
Mining, Quarrying, and Oil and Gas Well Drilling Managers
Order Clerks
Packaging and Filling Machine Operators
Painters and Paperhangers
Painting, Coating, and Decorating Workers, Hand
Personnel, Training, and Labor Relations Managers
Personnel Clerks
Precision Inspectors, Testers and Graders
Precision Molders, Shapers, Casters and Carvers, Except Jewelry and Foundry
Precision Patternmakers, Model Makers, Layout Workers and Cutters
Punching Machine Setters and Set-Up Operators, metal and plastics
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Sales Engineers
Screen Printing Machine Setters and Set-Up Operators
Textile Machine Operators
Tool Grinders, Filers, Sharpeners Other Precision Grinders
Truck Drivers, Light
Typists
Welders and Cutters

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sales to others or for interplant transfer.

During the survey month of April 1983 there were 1,120 wage and salary workers employed in the manufacturing of nonferrous castings. This represents an increase of 66 workers (or 6 percent) from a similar survey conducted three years earlier.

Our sample consisted of 15 units representing an employment of 1,207. Usable responses were received from 10 units or 67 percent of the units sampled. The reported employment was 892 or 74 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	91114	Grinding, Lapping, and Buffing Machine Tool Setters And Set-Up Operators, Metal and Plastic	57
2	92965	Crushing, Grinding, Mixing and Blending Machine Operators and Tenders	53
	93953	Grinding and Polishing Workers, Hand	53
4	89902	Precision Foundry Mold and Core-Makers	42
5	81008	First Line Supervisors and Manager/ Supervisors Production and Operating Workers	38
6	93941	Metal Pourers and Casters, Basic Shapes	35
7	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	32
8	89114	Pattern and Model Makers-Metal	31
	91914	Foundry Mold Assembly and Shakeout Workers	31
10	51002	First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	30
	91508	Combination Machine Tool Operators and Tenders, Metal and Plastics	30

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	100.0
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	80.0
3	85132	Maintenance Repairers, General Utility	70.0
4	89102	Tool and Die Makers	60.0
	91114	Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators, Metal and Plastic	60.0
	93941	Metal Pourers and Casters, Basic Shapes	60.0

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,120	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	59	5.3				
General Managers And Top Executives	19005	22	2.0	17	26	18	100.0
All Other Managers And Administrators	19999	37	3.3	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	82	7.3				
All Other Financial Specialists	21199	1	0.1	NA	-	-	NA
All Other Management Support Workers	21999	11	1.0	NA	-	-	NA
All Other Engineers	22199	6	0.5	NA	-	-	NA
All other Engineering And Related Technicians And Technologists	22599	31	2.8	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	33	2.9	NA	-	-	NA
SALES OCCUPATIONS	40000-49000	15	1.3	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	104	9.3				
First Line Supervisors And Manager/Supervisors- Clerical Support Occupations	51002	30	2.7	12	34	26	30.0
Secretaries	55100	11	1.0	13	12	10	40.0
All Other Office Machine Operators	56099	6	0.5	NA	-	-	NA
Traffic, Shipping, And Receiving Clerks	58028	13	1.2	15	15	11	40.0
All Other Material Recording, Scheduling, And Distributing Workers	58099	12	1.1	NA	-	-	NA

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Clerical And Administrative Support Workers	59999	32	2.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	25	2.2	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	835	74.6				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	38	3.4	23	47	29	80.0
Precision Inspectors, Testers, And Graders	83002	28	2.5	13	32	24	40.0
Maintenance Repairers, General Utility	85132	26	2.3	8	28	24	70.0
All Other Mechanics, Installers And Repairers	85999	13	1.2	NA	-	-	NA
All Other Construction Trades Workers	87899	6	0.5	NA	-	-	NA
Tool And Die Makers	89102	20	1.7	13	23	17	60.0
Pattern And Model Makers-Metal	89114	31	2.8	34	41	21	50.0
All Other Precision Metal Workers	89199	28	2.5	NA	-	-	NA
Precision Foundry Mold And Core Makers	89902	42	3.8	12	47	37	50.0
All Other Precision Workers	89999	39	3.5	NA	-	-	NA
Grinding, Lapping, And Buffing Machine Tool Setters & Set-Up Operators, Metal And Plastic	91114	57	5.1	23	70	44	60.0
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	30	2.7	35	41	19	30.0
Metal Molding, Coremaking, And Casting Machine Setters And Set-Up Operators	91908	20	1.8	33	27	13	40.0
Foundry Mold Assembly And Shakeout Workers	91914	31	2.8	20	37	25	30.0

STAFFING PATTERNS

NONFERROUS FOUNDRIES (CASTINGS)

(SIC 336)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Furnace Operators And Tenders	91935	16	1.4	25	20	12	50.0
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	32	2.9	NA	-	-	NA
All Other Metal And Plastic Machine Operators And Tenders	92198	42	3.8	NA	-	-	NA
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	53	4.7	20	64	42	40.0
All Other Machine Operators And Tenders	92998	5	0.4	NA	-	-	NA
Metal Pourers And Casters, Basic Shapes	93941	35	3.1	15	40	30	60.0
Grinding And Polishing Workers, Hand	93953	53	4.7	17	62	44	40.0
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	32	2.9	34	43	21	40.0
All Other Hand Workers	93999	140	12.5	NA	-	-	NA
All Other Motor Vehicle Operators	97199	2	0.2	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	1	0.1	NA	-	-	NA
All Other Helpers, Laborers, And Material Movers, Hand	98999	15	1.3	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Bookkeeping, Accounting and Auditing Clerks
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Coating, Painting, and Spraying Machine Operators and Tenders
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Computer Operators
Computer Programmers
Computer Programmer Aides
Cost Estimators
Data Entry Keyers
Drafters
Drilling Machine Setters and Set-Up Operators, Metal and Plastic
Electrical and Electronic Engineers
Electrical and Electronic Technicians and Technologists
Electricians
Financial Managers
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
Freight, Stock, and Material Movers, Hand
General Office Clerks
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Production Managers
Industrial Truck and Tractor Operators
Janitors and Cleaners
Lathe Machine Setters and Set-Up Operators, Metal and Plastic
Machinery Maintenance Mechanics
Machinery Maintenance Workers
Machinists
Machine Tool Cutting Operators
Marketing, Advertising, and Public Relations Managers
Mechanical Engineers
Metallurgists and Metallurgical, Ceramic and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Operators
Milling Machine Setters and Set-Up Operators, Metal and Plastic
Millwrights
Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
Order Clerks
Pattern and Model Makers, Wood
Personnel Clerks
Personnel, Training and Labor Relations Managers
Personnel, Training and Labor Relations Specialists
Precision Layout Workers, Metal and Plastic
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Production, Planning and Expediting Clerks
Programmers-Numerical, Tool, and Process Control
Punching Machine Setters and Set-Up Operators, Metal and Plastics
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Sales Engineers
Sales Representatives, Scientific and Related Products and Services
Sawing Machine Setters and Set-Up Operators, Metal and Plastic
Sheet Metal Workers
Soldering and Brazing Machine Setters and Set-Up Operators
Solderers and Brazers
Statistical Clerks
Stock Clerks, Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Truck Drivers, Heavy
Truck Drivers, Light
Welding Machine Setters and Set-Up Operators
Welding Machine Operators and Tenders

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

(SIC 34)

This major group includes establishments primarily engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified.

During the survey month of June 1983 there were 6,986 wage and salary workers, a decrease of 427 workers or 6 percent over a similar survey taken three years earlier.

Our sample consisted of 95 units representing an employment of 6,406. Usable responses were received from 71 units or 75 percent of the units sampled. The reported employment was 5,234 or 82 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	93956	Assemblers and Fabricators-Except, Electrical, Electronic, and Precision	482
2	91508	Combination Machine Tool Operators and Tenders, Metal and Plastic	302
3	91321	Machine Forming Operators and Tenders, Metal and Plastic	295
4	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	274
5	91302	Punching Machine Setters and Set-Up Operators, Metal and Plastic	233
6	19005	General Managers and Top Executives	203
7	93953	Grinding and Polishing Workers, Hand	197
8	91117	Machine Tool Cutting Operators and Tenders, Metal and Plastic	194
9	89102	Tool and Die Makers	158
10	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	153
	89132	Sheet Metal Workers	153

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	81.6
2	81008	First Line Supervisors and Manager/Supervisors- Production and Operating Workers	59.2
3	55100	Secretaries	51.3
4	55338	Bookkeeping, Accounting, and Auditing Clerks	47.4
5	55347	General Office Clerks	40.8

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		6,986	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	368	5.3				
Financial Managers	13002	17	0.2	22	21	13	11.8
Personnel, Training & Labor Relations Managers	13005	13	0.2	14	15	11	10.5
Marketing, Advertising, and Public Relations Managers	13011	11	0.2	22	13	9	6.6
Administrative Services Managers	13014	20	0.3	23	25	15	11.8
Industrial Production Managers	15014	46	0.7	49	69	23	11.8
General Managers and Top Executives	19005	203	2.9	8	220	186	81.6
All Other Managers and Administrators	19999	58	0.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	402	5.8				
Accountants & Auditors	21114	41	0.6	18	48	34	19.7
All Other Financial Specialists	21199	3	*	NA	-	-	NA
Purchasing Agents	21308	12	0.2	24	15	9	9.2
Cost Estimators	21902	36	0.5	30	47	25	9.2
All Other Management Support Workers	21999	18	0.3	NA	-	-	NA
Industrial Engineers, Except Safety	22128	14	0.2	46	20	8	6.6
Mechanical Engineers	22135	128	1.8	27	162	94	32.9
All Other Engineers	22199	20	0.3	NA	-	-	NA
Drafters	22514	64	0.9	29	82	46	19.7
All Other Engineering & Related Technicians & Technologists	22599	27	0.4	NA	-	-	NA
All Other Professional, Paraprofessional	39999	39	0.6	NA	-	-	NA

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
SALES OCCUPATIONS	40000-49999	137	2.0				
Sales Representatives, Scientific and Related Prods. & Services	49005	29	0.4	26	37	21	11.8
Other Sales Representatives	49008	88	1.3	21	107	69	26.3
All Other Sales and Related Workers	49999	20	0.3	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	571	8.2				
Secretaries	55100	104	1.5	10	115	93	51.3
Bookeeping, Accounting, and Auditing Clerks	55338	69	1.0	13	78	60	47.4
Payroll & Timekeeping Clerks	55341	14	0.2	25	17	11	9.2
General Office Clerks	55347	100	1.4	16	116	84	40.8
Data Entry Keyers	56017	10	0.2	23	12	8	3.9
All Other Office Machine Operators	56099	9	0.1	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	47	0.7	12	53	41	9.2
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	40	0.6	19	48	32	10.5
Traffic, Shipping, and Receiving Clerks	58028	36	0.5	7	38	34	10.5
All Other Material Recording Scheduling & Dist. Workers	58099	37	0.5	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	105	1.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	96	1.4				
Janitors & Cleaners	67005	83	1.2	7	89	77	32.9
All Other Service Workers	69999	13	0.2	NA	-	-	NA

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000 79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000 98999	5,410	77.4				
First Line Supervisors and Manager/Supervisors-Production and Operating Workers	81008	274	3.9	4	285	263	59.2
Precision Inspectors, Testers, and Graders	83002	90	1.3	23	111	69	17.1
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	83005	153	2.2	9	167	139	31.6
Machinery Maintenance Mechanics	85110	54	0.8	22	66	42	15.8
Maintenance Repairers, General Utility	85132	101	1.4	14	115	87	30.3
All Other mechanics, Installers and Repairers	85999	30	0.4	NA	-	-	NA
Electricians	87202	13	0.2	12	15	11	5.3
All other Construction Trades Workers	87899	21	0.3	NA	-	-	NA
Tool and Die Makers	89102	158	2.3	12	176	140	31.6
Machinists	89108	131	1.9	20	157	106	26.3
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	72	1.0	27	91	53	17.1
Sheet Metal Workers	89132	153	2.2	42	217	89	11.8
All Other Precision Metal Workers	89199	90	1.3	NA	-	-	NA
All Other Precision Workers	89999	46	0.7	NA	-	-	NA
Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic	91102	20	0.3	39	28	12	6.6

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Lathe and Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	55	0.8	16	64	46	13.2
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	68	1.0	17	80	56	7.9
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	151	2.2	10	166	136	10.5
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	194	2.8	22	237	151	15.8
Punching Machine Setters & Set-Up Operators, Metal & Plastic							
Press & Press Brake Machine Setters & Set-Up Operators, Metal & Plastic	91305	139	2.0	11	154	124	15.8
Shear & Slitter Machine Setters & Set-Up Operators, Metal & Plastic	91308	35	0.5	22	43	27	14.5
Machine Forming Operators & Tenders, Metal & Plastic	91321	295	4.2	14	335	255	19.7
Numerical Control Machine Tool Operators & Tenders, Metal & Plastic	91502	42	0.6	36	57	27	7.9
Combination Machine Tool Setters & Set-Up Operators, Metal & Plastic	91505	37	0.5	41	52	22	6.6
Combination Machine Tool Operators & Tenders, Metal & Plastic	91508	308	4.3	2	308	296	3.9
Welding Machine Setters and Set-Up Operators	91702	78	1.1	32	103	53	17.1
Welding Machine Operators and Tenders	91705	28	0.4	26	35	21	7.9
Soldering & Brazing Machine Operators & Tenders	91711	18	0.3	23	22	14	6.6
Electrolytic Plating & Coating Machine Operators & Tenders, Metal and Plastic	91921	36	0.5	29	47	25	9.2

STAFFING PATTERNS

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

(SIC 34)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Nonelectrolytic Plating & Coating Machine Operators & Tenders, Metal and Plastic	91926	14	0.2	27	18	10	3.9
Heat Treating, Annealing, & Tempering Machine Operators & Tenders, Metal & Plastic	91932	18	0.3	6	19	17	5.3
All Other Metal & Plastic Machine Setters, & Set-Up Operators	92197	164	2.3	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	212	3.0	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	49	0.7	33	65	33	10.5
Coating, Painting, & Spraying Machine Operators and Tenders	92953	64	0.9	46	93	35	6.6
All Other Operators and Tenders	92998	77	1.1	NA	-	-	NA
Fitters, Structural Metal-Precision	93108	65	0.9	30	84	46	7.9
All Other Precision Assemblers, Metal	93197	22	0.3	NA	-	-	NA
Welders and Cutters	93914	128	1.8	26	161	95	6.6
Grinding and Polishing Workers Hand	939	197	2.8	18	232	162	23.7
Assemblers and Fabricators-Except Machine, Electrical, Electronic, and Precision	93956	482	6.9	11	535	429	35.5
All Other Hand Workers	93999	44	0.6	NA	-	-	NA
Truck Drivers, Heavy or Tractor Trailer	97102	20	0.3	48	30	10	5.3
All Other Motor Vehicle Operators	97199	9	0.1	NA	-	-	NA
All Other Transportation and Related Workers	97899	2	*	NA	-	-	NA
Industrial Truck and Tractor Operators	97947	75	1.1	17	88	62	19.7
All Other Material Moving Equipment Operators	97999	17	0.3	NA	-	-	NA
Machine Feeders and Offbearers	98502	95	1.4	27	120	70	9.2
Freight, Stock, and Material Movers, Hand	98700	116	1.7	12	130	102	35.5
Hand Packers and Packagers	98902	120	1.7	18	141	99	30.3
All Other Helpers, Laborers, and Material Movers, Hand	98999	303	4.3	NA	-	-	NA

* Less than 0.05 Percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All or "All Other" Category.

Automotive Mechanics
Billing, Cost and Rate Clerks
Boiler Operators, Low Pressure
Budget Analysts
Carpenters
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Computer Operators
Computer Programmers
Computer Programmer Aides
Conveyer Operators and Tenders
Crane and Tower Operators
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Designers
Electrical and Electronic Engineers
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
File Clerks
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations
First Line Supervisors and Manager/ Supervisors-Service
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager Supervisors-Transportation
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
Food and Beverage Preparation and Service Occupations
Furnace Operators and Tenders
Gardeners and Groundskeepers
Guards and Watch Guards
Health Practitioners, Technologists, Technicians, and Related Health Occupations
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Hoist and Winch Operators
Industrial Engineering Technicians and Technologists
Life Scientists
Machinery Maintenance Workers
Mechanical Engineering Technicians and Technologists
Metallurgists and Metallurgical, Ceramic and Materials Engineers
Metal Fabricators, Structural Metal Products
Milling Machine Setters and Set-Up Operators, Metal and Plastic
Millwrights
Nuclear Engineers
Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Order Clerks
Painters and Paperhangers
Pattern and Model Makers
Packaging and Filling Machine Operators and Tenders
Personnel, Training and Public Relations Specialists
Personnel Clerks
Plumbers and Pipefitters
Precision Layout Workers-Metal
Precision Foundry Mold Makers
Precision Woodworkers
Programmer-Numerical Tool, and Process Control
Procurement Clerks
Purchasing Managers
Receptionists and Information Clerks
Rolling Machine Setters and Set-Up Operators
Safety Engineers
Sawing Machine Operators
Soldering and Brazing Machine Operators
Stenographers
Switchboard Operators
Systems Analysts
Typists
Typists, Word Processor
Woodworking Machine Setters and Set-Up Operators
Woodworking Machine Operators and Tenders

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

This major group includes establishments primarily engaged in manufacturing machinery and equipment (except electrical and transportation), machines powered by built-in or detachable motors (except electrical household appliances), and portable tools, both electric and pneumatic powered (except hand tools).

During the survey month of June 1983, there were 21,436 wage and salary workers employed in the nonelectrical machinery industries, a decrease of 2,006 jobs or 8.6 percent over the three year period since the previous survey of June 1980. This reflects the economic slowdown which started in late 1980. The largest occupational group in this industry was in production, construction, operating, maintenance and material handling occupations with almost 42 percent of the workers, followed by the professional, paraprofessional and technical occupations (over 26 percent) and clerical (over 18 percent). The three most prominent single occupations, electrical and electronic engineers with 1,124 workers, secretaries with 1,068 workers, and machinists with 1,025 workers combine to constitute 15 percent of the total employment in this major industrial group.

Our sample consisted of 190 units representing an employment of 21,193. Usable responses were received from 138 units or 73 percent of the units sampled. The reported employment was 16,466 or 78 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	22126	Electrical and Electronic Engineers	1,124
2	55100	Secretaries	1,068
3	89108	Machinists	1,025
4	83002	Precision Inspectors, Testers, and Graders	997
5	93114	Electrical and Electronic Equipment Assemblers-Precision	994
6	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	597
7	22505	Electrical and Electronic Engineering Technicians and Technologists	565
8	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	562
9	93956	Assemblers and Fabricators - Except Machine, Electrical, Electronic and Precision	477
10	93105	Machine Builders and Other Precision Machine Assemblers	446

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	73.4
2	89108	Machinists	61.0
3	81008	First Line Supervisors and Manager/ Supervisors - Production and Operating Workers	53.2
4	55100	Secretaries	49.4
5	55338	Bookkeeping, Accounting, and Auditing Clerks	48.7

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		21,436	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	2,004	9.3				
Financial Managers	13002	200	0.9	11	222	178	20.1
Personnel, Training, & Labor Relations Managers	13005	97	0.5	11	108	86	13.0
Purchasing Managers	13008	52	0.2	10	57	47	11.7
Marketing, Advertising, & Public Relations Managers	13011	305	1.4	21	370	240	10.4
Administrative Services Managers	13014	79	0.4	12	89	69	10.4
Industrial Production Managers	15014	293	1.4	7	313	273	13.6
General Managers And Top Executives	19005	371	1.7	7	425	344	73.4
All Other Managers And Administrators	19999	607	2.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	5,631	26.3				
Accountants And Auditors	21114	173	0.8	7	185	161	23.4
Budget Analysts	21117	40	0.2	14	46	34	6.5
All Other Financial	21199	72	0.3	NA	-	-	NA
Purchasing Agents	21308	143	0.7	8	154	132	17.5
Personnel, Training, And Labor Relations Specialists	21511	81	0.4	5	85	77	8.4
Cost Estimators	21902	29	0.1	9	32	26	8.4
All Other Management Support Workers	21999	226	1.0	NA	-	-	NA
Metallurgists And Metallurgical, Ceramic, Materials Engineers	22105	11	0.1	7	12	10	6.5
Chemical Engineers	22114	10	0.1	23	12	8	1.9
Electrical And Electronic Engineers	22126	1,124	5.2	20	1,348	900	17.5
Industrial Engineers, Except Safety	22128	252	1.2	12	282	222	15.6
Safety Engineers	22132	34	0.2	31	45	23	5.2
Mechanical Engineers	22135	254	1.2	9	277	231	24.7
All Other Engineers	22199	374	1.7	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Electrical & Electronic Engineering Technicians And Technologists	22505	565	2.6	14	646	484	18.8
Industrial Engineering Technicians And Technologists	22508	48	0.2	11	53	43	6.5
Mechanical Engineering Technicians & Technologists	22511	122	0.6	14	139	105	8.4
Drafters	22514	217	1.0	11	241	193	27.3
All Other Engineering And Related Technicians And Technologists	22599	166	0.8	NA	-	-	NA
All Other Physical Scientists	24199	58	0.3	NA	-	-	NA
Chemical Technicians And Technologists, Except Health	24505	50	0.2	29	65	35	1.9
All Other Physical And Life Science Technicians And Technologists	24599	6	*	NA	-	-	NA
Systems Analysts	25102	177	0.8	16	205	149	6.5
Computer Programmers	25105	277	1.3	8	300	254	10.4
Computer Programmer Aides	25108	18	0.1	16	21	15	3.2
Programmers, Numerical, Tool, And Process Control	25111	52	0.2	12	58	46	5.8
Health Practitioners, Technologists, Technicians & Related Occupations	32000	23	0.1	10	25	21	5.2
Writers And Editors	34002	27	0.1	23	29	17	2.6
Technical Writers	34005	248	1.2	18	293	203	3.9
Designers	34038	98	0.5	18	116	80	3.2
All Other Professional, Para-Professional & Technical Workers	39999	656	3.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	569	2.7				
First Line Supervisors And Manager/Supervisors	41002	63	0.3	6	10	2	7.1
Sales Engineers	49002	122	0.6	19	145	99	5.8
Sales Representatives, Scientific And Related Product & Services	49005	149	0.7	11	165	133	18.8
Other Sales Representatives	49008	167	0.8	17	195	139	18.8
All Other Sales And Related Workers	49999	68	0.3	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	3,963	18.5				
First Line Supervisors And Manager/Supervisors	51002	134	0.6	15	154	114	7.8
Secretaries	55100	1,068	5.0	9	1,168	968	49.4
Receptionists And Information Clerks	55305	17	0.1	13	19	15	6.5
Typists	55308	87	0.4	21	105	69	5.8
Typists, Word Processor	55311	25	0.1	19	30	20	2.6
Personnel Clerks	55314	30	0.1	13	34	26	5.8
File Clerks	55321	37	0.2	15	42	32	5.2
Order Clerks	55323	176	0.8	28	226	126	8.4
Procurement Clerks	55326	40	0.2	7	43	37	9.7
Bookkeeping, Accounting, And Auditing Clerks	55338	298	1.4	10	329	267	48.7
Payroll & Timekeeping Clerks	55341	33	0.2	8	36	30	9.7
Billing, Cost And Rate Clerks	55344	46	0.2	13	52	40	7.8
General Office Clerks	55347	164	0.8	7	176	152	40.3
Computer Operators	56011	115	0.5	12	129	101	11.0
Peripheral Edp Equipment Operators	56014	46	0.2	30	60	32	1.9
Data Entry Keyers	56017	153	0.7	15	176	130	9.1
All Other Office Machine Operators	56099	32	0.1	NA	-	-	NA
Switchboard Operators	57102	26	0.1	6	28	24	11.0
Production, Planning, And Expediting Clerks	58008	410	1.9	13	464	356	13.6
Weighers, Measurers, Checkers And Samplers	58017	10	0.1	33	13	7	1.9
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	597	2.9	19	713	481	29.9
Traffic, Shipping, And Receiving Clerks	58028	302	1.4	10	331	273	38.3
All Other Material Recording, Scheduling & Dist. Workers	58099	50	0.2	NA	-	-	NA
All Other Clerical And Administrative Support Workerss	59999	67	0.3	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	290	1.3				
First Line Supervisors And Manager/Supervisors	61000	20	0.1	11	22	18	5.2

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Guards And Watch Guards	63047	119	0.5	8	129	109	7.1
Janitors And Cleaners	67005	135	0.6	6	144	126	29.9
All Other Service Workers	69999	16	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	16	0.1				
Gardeners And Groundskeepers, Except Farm	79014	16	0.1	27	20	12	3.2
PRODUCTION, CONSTRUCTION, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	8,963	41.8				
First Line Supervisors And Managers/Supervisors Mechanics, Installers & Repairers	81002	33	0.1	9	36	30	7.1
First Line Supervisors & Managers/Supervisors Production & Operating Workers	562	562	2.6	7	601	523	53.2
First Line Supervisors & Managers/Supervisors-Transportation & Material Moving Machine & Vehicle Occupations	81011	21	0.1	20	25	17	2.6
First Line Supervisors And Managers/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	26	0.1	17	31	21	3.9
Precision Inspectors, Testers, And Graders	83002	997	4.7	16	1,160	834	27.9
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	142	0.7	24	177	107	10.4
Machinery Maintenance Mechanics	85110	82	0.4	11	91	73	6.5
Millwrights	85123	49	0.2	9	53	45	2.6
Maintenance Repairers, General Utility	85132	145	0.7	6	154	136	24.0
Data Processing Equipment Repairers	85705	34	0.1	31	44	24	2.6
Precision Instrument Repairers	85902	14	0.1	25	17	11	1.9
All Other Mechanics, Installers, And Repairers	85999	39	0.2	NA	-	-	NA
Electricians	87202	56	0.3	7	60	52	10.4
Plumbers & Pipefitters	87502	11	0.1	20	13	9	2.6
All Other Construction Trades Workers	87899	19	0.1	NA	-	-	NA

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Tool And Die Makers	89102	186	0.9	15	214	158	23.4
Machinists	89108	1,025	4.8	5	1,077	973	61.0
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	75	0.3	18	88	62	5.8
Sheet Metal Workers	89132	64	0.3	17	75	53	6.5
All Other Precision Metal Workers	89199	33	0.2	NA	-	-	NA
Pattern & Model Makers, Wood	89302	10	0.1	25	13	7	1.9
All Other Precision Woodworkers	89399	4	*	NA	-	-	NA
All Other Precision Workers	89999	10	*	NA	-	-	NA
Sawing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91102	11	0.1	24	14	8	5.8
Lathe And Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	305	1.4	11	338	272	23.4
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	165	0.8	14	188	142	16.2
Milling & Planing Machine Setters & Set-Up Operators, Metal & Plastic	91111	108	0.5	15	124	92	13.0
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	362	1.7	13	409	315	18.2
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	256	1.2	16	296	216	10.4
Punching Machine Setters & Set-Up Operators, Metal & Plastic	91302	16	0.1	25	20	12	3.9
Shear & Slitter Machine Setters & Set-Up Operators, Metal & Plastic	91308	11	0.1	11	12	10	2.6
Machine Forming Operators & Tenders, Metal & Plastic	91321	71	0.3	32	94	48	3.9
Numerical Control Machine Tool Operators & Tenders, Metal & Plastic	91502	275	1.3	7	295	255	22.7
Combination Machine Tool Setters & Set-Up Operators, Metal Plastic	91505	33	0.2	20	40	26	5.8
Combination Machine Tool Operators & Tenders, Metal & Plastic	91508	48	0.2	29	62	34	4.5

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Welding Machine Setters & Set-Up Operators	91702	51	0.2	15	59	43	9.7
Welding Machine Operators & Tenders	91705	10	*	24	15	5	1.9
Soldering & Brazing Machine Setters & Set-Up Operators	91708	25	0.1	18	30	20	3.9
Soldering & Brazing Machine Operators & Tenders	91711	14	0.1	24	17	11	4.5
Heat Treating, Annealing, And Tempering Machine Operators & Tenders, Metal & Plastic	91932	20	0.1	13	23	17	5.2
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	7	*	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	305	1.4	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	18	0.1	23	22	14	5.2
Coating, Painting, & Spraying Machine Operators And Tenders	92953	21	0.1	35	28	14	3.2
All Other Machine Setters & Set-Up Operators	92997	20	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	122	0.5	NA	-	-	NA
Machine Builders & Other Precision Machine Assemblers	93105	446	2.1	13	505	387	13.0
Electromechanical Equipment Assemblers-Precision	93111	25	0.1	32	33	17	1.9
Electrical & Electronic Equipment Assemblers-Precision	93114	994	4.6	21	1,207	781	9.7
Machine Assemblers	93902	287	1.3	15	330	244	7.1
Electrical & Electronic Assemblers	93905	138	0.6	27	176	100	4.5
Welders And Cutters	93914	292	1.4	22	357	227	6.5
Grinding & Polishing Workers, Hand	93953	69	0.3	17	81	57	3.2
Assemblers & Fabricators-Except Machine, Electrical, Electronic & Precision	93956	477	2.2	18	564	390	14.3
All Other Hand Workers	93999	38	0.2	NA	-	-	NA
All Other Plant & System Operators	95099	14	0.1	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	17	0.1	12	19	15	7.1

STAFFING PATTERNS

MACHINERY, EXCEPT ELECTRICAL

(SIC 35)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Motor Vehicle Operators	97199	10	*	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	95	0.4	13	107	83	10.2
Mechanic & Repairer Helpers	98102	18	0.1	19	21	15	2.6
Machine Feeders & Offbearers	98502	51	0.2	24	63	39	5.8
Freight, Stock, & Material Movers, Hand	98700	69	0.3	24	86	52	7.1
All other Helpers, Laborers, And Material Movers, Hand	98999	12	0.1	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Agricultural Engineers
Automotive Mechanics
Boiler Operators, Low Pressure
Bus and Truck Mechanics and Diesel Engine Specialists
Carpenters
Civil Engineers, Including Traffic
Chemists
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Crushing, Grinding, Mixing, and Blending Machine Operators
Coil Winders, Tapers and Finishers
Electronic Semiconductor Processors
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
First Line Supervisors and Manager/ Supervisors-Construction Trades and Extractive Workers
Food and Beverage Preparation and Service Occupations
Furnace Operators and Tenders
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Heating Equipment Setters and Set-Up Operators, Metal and Plastic
Heaters, Metal and Plastic
Lawyers
Life Scientists
Machinery Maintenance Workers
Metal Molding, Coremaking and Casting Machine Operators and Tenders
Operations and Systems Researchers and Analysts, Except Computer
Packaging and Filling Machine Operators and Tenders
Physicists and Astronomers
Precision Foundry Mold Makers
Precision Layout Workers, Metal and Plastic
Public Relations Specialists and Publicity Writers
Riggers
Sawing Machine Operators and Tenders
Solderers and Brazers
Stationary Engineers
Statisticians
Statistical Clerks
Stenographers
Truck Drivers, Heavy
Woodworking Machine Operators and Tenders, Except Sawing
Woodworking Machine Setters and Set-Up Operators, Except Sawing

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
ELECTRICAL AND ELECTRONIC
MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

This major group includes establishments engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is also included in this group.

During the survey month of June 1983 there were 22,030 wage and salary workers, an increase of 2,258 workers or 11 percent over a similar survey taken three years earlier. This group had the highest employment in New Hampshire manufacturing in 1983. An indication of the growth for this group is the increase in the number of establishments from 120 in 1977 to 164 in 1983, a 37 percent increase.

Our sample consisted of 101 units representing an employment of 20,591. Usable responses were received from 74 units or 73 percent of the units sampled. The reported employment was 17,082 or 83 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	93905	Electrical and Electronic Assemblers	1,810
2	22126	Electrical and Electronic Engineers	1,365
3	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	1,269
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	1,038
5	22505	Electrical and Electronic Engineering Technicians and Technologists	736
6	19005	General Managers and Top Executives	685
7	93902	Machine Assemblers	683
8	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	653
9	55100	Secretaries	619
10	93908	Coil Winders, Tapers and Finishers	605

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	65.6
2	55100	Secretaries	55.2
3	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	54.2
4	22126	Electrical and Electronic Engineers	46.9
5	21308	Purchasing Agents	43.8
	58028	Traffic, Shipping, and Receiving Clerks	43.8

STAFFING PATTERNS
ELECTRICAL AND ELECTRONIC
MACHINERY, EQUIPMENT AND SUPPLIES
(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		22,030	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	1,696	7.7				
Financial Managers	13002	218	1.0	2	224	212	24.0
Personnel, Training, & Labor Relations Managers	13005	57	0.3	15	65	49	25.0
Purchasing Managers	13008	76	0.3	5	80	72	18.8
Marketing, Advertising, & Public Relations Managers	13011	117	0.5	7	125	109	17.7
Administrative Services Managers	13014	33	0.2	14	38	28	9.4
Industrial Production Managers	15014	331	1.5	6	351	311	26.0
General Managers And Top Executives	19005	685	3.1	3	707	663	65.6
All Other Managers And Administrators	19999	179	0.8	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	5,245	23.8				
Accountants And Auditors	21114	420	1.9	2	430	410	33.3
All Other Financial Specialists	21199	9	*	NA	-	-	NA
Purchasing Agents	21308	109	0.5	8	118	100	43.8
Personnel, Training, And Labor Relations Specialists	21511	90	0.4	4	94	86	11.5
Cost Estimators	21902	65	0.3	7	69	61	8.3
All Other Management Support Workers	21999	276	1.3	NA	-	-	NA
Chemical Engineers	22114	23	0.1	21	28	18	6.3
Electrical And Electronic Engineers	22126	1,365	6.2	3	1,404	1,326	46.9
Industrial Engineers, Except Safety	22128	127	0.6	11	141	113	22.9
Mechanical Engineers	22135	148	0.7	5	156	140	22.9
All Other Engineers	22199	425	1.9	NA	-	-	NA

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Electrical & Electronic Engineering Technicians And Technologists	22505	736	3.3	4	763	709	36.5
Industrial Engineering Technicians And Technologists	22508	11	0.1	33	15	7	5.2
Mechanical Engineering Technicians And Technologists	22511	44	0.2	10	48	40	7.3
Drafters	22514	347	1.6	4	361	333	35.4
All Other Engineering And Related Technicians And Technologists	22599	380	1.7	NA	-	-	NA
Chemists	24105	18	0.1	19	21	15	7.3
All other Physical Scientists	24199	20	0.1	NA	-	-	NA
Chemical Technicians And Technologists, Except Health	24505	32	0.1	43	46	18	6.3
Systems Analysts	25102	37	0.2	9	40	34	6.3
Computer Programmers	25105	351	1.6	2	358	344	16.7
Computer Programmer Aides	25108	75	0.3	3	84	66	5.2
Health Practitioners, Technologists, Technicians & Related Occupations	32000	35	0.2	5	37	33	6.3
Technical Writers	34005	10	*	31	13	7	6.3
All Other Professional, Para-Professional & Technical Workers	39999	92	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	263	1.2				
First Line Supervisors And Manager/Supervisors	41002	33	0.2	34	44	22	11.5
Sales Engineers	49002	54	0.2	25	68	40	10.4
Sales Representatives, Scientific And Related Products And Services	49005	136	0.6	33	181	91	21.9
Other Sales Representatives	49008	29	0.1	19	35	23	12.5
All Other Sales And Related Workers	49999	11	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	2,516	11.4				
First Line Supervisors And Manager/Supervisors	51002	29	0.1	14	33	25	13.5

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Secretaries	55100	619	2.8	4	644	594	55.2
Stenographers	55302	72	0.3	2	74	70	3.1
Receptionists And Information Clerks	55305	20	0.1	17	23	17	12.5
Typists	55308	355	1.6	2	361	349	11.5
Typists, Word Processor	55311	46	0.2	3	47	45	3.1
Personnel Clerks	55314	34	0.1	12	38	30	18.8
Order Clerks	55323	65	0.3	12	73	57	16.7
Procurement Clerks	55326	23	0.1	23	28	18	12.5
Bookkeeping, Accounting, And Auditing Clerks	55338	149	0.7	4	155	143	34.4
Payroll & Timekeeping Clerks	55341	41	0.2	13	46	36	27.1
Billing, Cost And Rate Clerks	55344	28	0.1	38	39	17	11.5
General Office Clerks	55347	150	0.7	9	163	137	38.5
Computer Operators	56011	38	0.2	9	42	34	8.3
Data Entry Keyers	56017	59	0.3	9	64	54	12.5
All Other Office Machine Operators	56099	24	0.1	NA	-	-	NA
Switchboard Operators	57102	30	0.1	12	33	27	15.6
Production, Planning, And Expediting Clerks	58008	289	1.3	5	304	274	28.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	239	1.1	12	267	211	41.7
Traffic, Shipping, And Receiving Clerks	58028	174	0.8	21	210	138	43.8
All Other Material Recording, Scheduling & Dist. Workers	58099	17	0.1	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	15	0.1	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	372	1.7				
First Line Supervisors And Manager/Supervisors	61000	39	0.2	21	47	31	9.4
Guards And Watch Guards	63047	124	0.6	7	133	115	9.4
Janitors And Cleaners	67005	208	0.9	6	220	196	34.4
All Other Service Workers	69999	1	*	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	4	*				

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	11,934	54.2				
First Line Supvrs. & Mgr/Supvrs.-Mechanics, Installers & Repairers	81002	30	0.1	18	35	25	13.5
First Line Supvrs. & Mgr/Supvrs.-Production & Operating Workers	81008	653	3.0	8	703	603	54.2
First Line Supvrs. & Mgr/Supvrs.-Helpers, Laborers, & Material Movers, Hand	81017	11	*	45	16	6	5.2
Precision Inspectors, Testers, And Graders	83002	464	2.1	14	529	399	30.2
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	1,038	4.7	15	1,198	878	35.4
Machinery Maintenance Mechanics	85110	196	0.9	29	253	139	11.5
Millwrights	85123	11	*	28	14	8	4.2
Machinery Maintenance Workers	85128	23	0.1	13	26	20	4.2
Maintenance Repairers, General Utility	85132	222	1.0	14	254	190	34.4
Electronics Repairers, Commercial And Industrial Equipment	85717	12	0.1	32	16	8	4.2
All Other Mechanics, Installers And Repairers	85999	40	0.2	NA	-	-	NA
Carpenters	87102	34	0.1	9	37	31	6.3
Electricians	87202	70	0.3	8	75	65	12.5
Plumbers And Pipefitters	87502	13	0.1	22	16	10	3.1
All Other Const. Trades Workers	87899	5	*	NA	-	-	NA
Tool And Die Makers	89102	95	0.4	24	118	72	18.8
Machinists	89108	178	0.8	13	201	155	26.0
Sheet Metal Workers	89132	59	0.3	3	61	57	12.5
All Other Precision Metal Workers	89199	13	0.1	NA	-	-	NA
Lathe And Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	56	0.3	43	80	32	7.3
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	25	0.1	46	37	13	5.2

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	13	0.1	44	19	7	4.2
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	46	0.2	45	67	25	8.3
Press & Press Brake Machine Setters & Set-Up Operators, Metal & Plastic	91305	13	0.1	44	19	7	3.1
Machine Forming Operators & Tenders, Metal & Plastic	91321	30	0.1	21	36	24	3.1
Welding Machine Setters & Set-Up Operators	91702	12	0.1	0	12	12	5.2
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	239	1.1	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	426	1.9	NA	-	-	NA
Screen Printing Machine Setters & Set-Up Operators	92524	12	0.1	49	18	6	4.2
All Other Printing, Binding, And Related Machine Operators & Tenders	92549	51	0.2	NA	-	-	NA
Coating, Painting, & Spraying Machine Setters & Set-Up Operators	92951	15	0.1	18	18	1	6.3
Coating, Painting, & Spraying Machine Operators and Tenders	92953	51	0.2	42	73	29	5.2
All Other Machine Setters & Set-Up Operators	92997	23	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	837	3.8	NA	-	-	NA
Electromechanical Equipment Assemblers-Precision	93111	235	1.1	28	301	169	10.4
Electrical And Electronic Equipment Assemblers-Precision	93114	1,216	5.5	37	1,663	769	20.8
All Other Precision Assemblers, Metal	93197	207	0.9	NA	-	-	NA
Machine Assemblers	93902	683	3.1	5	719	647	4.2
Electrical & Electronic Assemblers	93905	1,810	8.2	39	2,515	1,105	29.2
Coil Winders, Tapers & Finishers	93908	605	2.7	40	845	365	15.6

STAFFING PATTERNS

ELECTRICAL AND ELECTRONIC

MACHINERY, EQUIPMENT AND SUPPLIES

(SIC 36)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Assemblers & Fabricators-Except Machine, Electrical, Electronic & Precision	93956	1,269	5.8	9	1,387	1,151	16.7
All Other Hand Workers	93999	433	2.0	NA	-	-	NA
All Other Plant & System Operators	95099	12	0.1	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	18	0.1	23	22	14	13.5
All Other Motor Vehicle Operators	97199	27	0.1	NA	-	-	NA
All Other Transportation And Related Workers	97899	6	*	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	17	0.1	15	20	14	5.2
All Other Material Moving Equipment Operators	97999	2	*	NA	-	-	NA
Machine Feeders & Offbearers	98502	154	0.7	16	179	129	4.2
Freight, Stock, & Material Movers, Hand	98700	138	0.6	18	163	113	19.8
All Other Helpers, Laborers, And Material Movers, Hand	98999	86	0.4	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Billing, Posting and Calculating Machine Operators
Budget Analysts
Civil Engineers, Including Traffic
Civil Engineering Technicians and Technologists
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Combination Machine Tool Operators and Tenders, Metal and Plastic
Construction Trades and Extractive Worker Helpers
Data Processing Equipment Repairers
Designers
Electromedical and Biomedical Repairers
Electric Motor, Transformer and Related Repairers
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
First Line Supervisors and Manager/ Supervisors-Transportation and Material Moving Machine and Vehicle Operators
Gardeners and Groundskeepers Grinding and Polishing Workers, Hand
Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Heating Equipment Setters and Set-Up Operators, Metal and Plastic
Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic
Lawyers
Life Scientists
Machine Builders and Other Precision Machine Assemblers
Mathematical Technicians
Mechanic and Repairer Helpers
Metallurgists and Metallurgical. Ceramic and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
Milling and Planing Machine Setters and Set-Up Operators
Nonelectrolytic Plating and Coating MachineSetters and Set-Up Operators,
Nonelectrolytic Plating and Coatting Machine Operators and Tenders
Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
Operations and Systems Researchers and Analysts, Except Computer
Packaging and Filling Machine Operators and Fillers
Painters and Paperhangers
Peripheral EDP Equipment Operators
Physicists and Astronomers
Plastic Molding and Casting Machine Setters and Set-Up Operators
Plastic Molding and Casting Machine Operators and Tenders
Precision Instrument Repairers
Precision Layout Workers, Metal
Programmers-Numerical, Tool and Process Control
Public Relations Specialists
Punching Machine Setters and Set-Up operators, Metal and Plastic
Safety Engineers, Except Mining
Sawing Machine Tool Setters and Set-Up Operators
Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
Soldering and Brazing Machine Operators and Set-Up Operators
Soldering and Brazing Machine Operators and Tenders
Solders and Brazers, hand
Tool Grinders, Filers, Sharpeners and Other Precision Grinders
Watch, Clock, and Chronometer Assemblers, Adjusters and Calibrators-Precision
Weighers, Measurers, Checkers, and Samplers-Recordkeeping
Welders and Cutters
Welding Machine Operators and Tenders
Writers and Editors

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

During the survey month of April 1983 there were 7,058 wage and salary workers employed in the instruments and related products industries, a loss of 610 workers (or 8 percent) from a similar survey conducted three years ago. The largest occupational group, production, construction, operating, maintenance, and material handling provided 4,477 jobs or more than 63 percent of the total employment in these industries.

Our sample consisted of 48 units representing an employment of 6,649. Usable responses were received from 42 units or 88 percent of the units sampled. The reported employment was 6,413 or 96 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	93905	Electrical and Electronic Assemblers	698
2	93956	Assemblers, and Fabricators-Except Machine, Electrical, Electronic and Precision	626
3	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	396
4	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	321
5	93114	Electrical and Electronic Equipment Assemblers-Precision	307
6	22505	Electrical and Electronic Engineering Technicians and Technologists	223
7	58023	Stock Clerks-Stockroom, Warehouse or Storage Yard	186
8	22126	Electrical and Electronics Engineers	138
9	55100	Secretaries	137
10	19005	General Managers and Top Executives	106
	58008	Production, Planning and Expediting Clerks	106

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	86.0
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	79.1
3	55100	Secretaries	72.1
4	21308	Purchasing Agents	51.2
5	58028	Traffic, Shipping, and Receiving Clerks	48.8

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		7,058	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	416	5.9				
Financial Managers	13002	30	0.4	4	31	29	30.2
Personal, Training, & Labor Relations Managers	13005	14	0.2	4	15	13	23.3
Purchasing Managers	13008	15	0.2	4	16	14	27.9
Marketing, Advertising, & Public Relations Managers	13011	33	0.5	5	35	31	25.6
Administrative Services Managers	13014	26	0.4	5	27	25	9.3
Industrial Production Managers	15014	74	1.0	3	76	72	32.6
General Managers And Top Executives	19005	106	1.5	8	114	98	86.0
All Other Managers And Administrators	19999	118	1.7	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,017	14.4				
Accountants And Auditors	21114	22	0.3	3	23	21	16.3
All Other Financial Specialists	21199	26	0.4	NA	-	-	NA
Purchasing Agents	21308	71	1.0	3	73	69	51.2
Personnel, Training, And Labor Relations Specialists	21511	19	0.3	2	19	19	14.0
All Other Management Support Workers	21999	66	0.9	NA	-	-	NA
Electrical And Electronic Engineers	22126	138	2.0	3	142	134	41.9
Industrial Engineers, Except Safety	22128	78	1.1	1	79	77	23.3
Mechanical Engineers	22135	83	1.2	1	84	82	23.3
All Other Engineers	22199	36	0.5	NA	-	-	NA
Electrical & Electronic Engineering Technicians And Technologists	22505	223	3.2	2	226	220	46.5
Mechanical Engineering Technicians & Technologists	22511	35	0.5	4	36	34	18.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Drafters	22514	61	0.9	3	63	59	39.5
All Other Engineering And Related Technicians & Technologists	22599	17	0.2	NA	-	-	NA
All Other Physical Scientists	24199	3	*	NA	-	-	NA
All Other Physical And Life Science Technicians & Technologists	24599	1	*	NA	-	-	NA
Systems Analysts	25102	20	0.3	3	21	19	9.3
Computer Programmers	25105	30	0.4	1	30	30	14.0
All Other Health Professionals, Paraprofessionals, & Technicians	32999	44	0.6	NA	-	-	NA
Designers	34038	13	0.2	16	15	11	9.3
All Other Professionals, Paraprofessionals & Technicians	39999	31	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	95	1.3				
First Line Supervisors And Manager/Supervisors	41002	12	0.2	6	13	11	9.3
Sales Engineers	49002	36	0.5	7	39	33	14.0
Sales Representatives, Scientific And Related Prods. & Services	49005	25	0.4	15	29	21	20.9
Other Sales Representatives	49008	10	0.1	18	12	8	11.6
All Other Sales And Related Workers	49999	12	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	960	13.6				
First Line Supervisors And Manager/Supervisors	51002	27	0.4	7	30	25	14.0
Secretaries	55100	137	1.9	4	142	132	72.1
Typists	55308	26	0.4	5	27	25	16.3
Typists, Word Processing	55311	17	0.2	0	17	17	9.3
Personnel Clerks	55314	10	0.1	3	10	10	14.0
Procurement Clerks	55326	25	0.4	2	25	25	11.6

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Bookkeeping, Accounting, And Auditing Clerks	55338	60	0.9	7	64	56	46.5
Payroll & Timekeeping Clerks	55341	15	0.2	2	15	15	20.9
Billing, Cost & Rate Clerks	55344	22	0.3	5	23	21	16.3
General Office Clerks	55347	79	1.1	7	84	74	34.9
Billing, Posting, And Calculating Machine Operators	56002	11	0.1	0	11	11	7.0
Computer Operators	56011	20	0.3	6	21	19	16.3
Data Entry Keyers	56017	23	0.3	2	23	23	11.6
All Other Office Machine Operators	56099	18	0.3	NA	-	-	NA
Switchboard Operators	57102	12	0.2	7	13	11	20.9
Production, Planning, And Expediting Clerks	58008	106	1.5	1	108	104	27.9
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	186	2.6	1	187	185	39.5
Traffic, Shipping, And Receiving Clerks	58028	84	1.2	5	88	80	48.8
All Other Material Recording, Scheduling, & Dist. Workers	58099	19	0.3	NA	-	-	NA
All Other Clerical & Admin. Workers	59999	63	0.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	88	1.2				
Janitors And Cleaners	67005	71	1.0	3	73	69	37.2
All Other Cleaning & Bldg. Service Workers	67099	1	*	NA	-	-	NA
All Other Service Workers	69999	16	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	4	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4,477	63.4				
First Line Supvrs. & Mgr/Supvrs. Production & Operating Wkrs.	81008	396	5.6	2	403	389	79.1

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other First Line Supervisors & Mgr/Supvrs.	81099	24	0.3	NA	-	-	NA
Precision Inspectors, Testers, And Graders	83002	92	1.3	5	97	87	34.9
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	321	4.5	6	341	301	30.2
Machinery Maintenance Mechanics	85110	17	0.2	15	20	14	7.0
Maintenance Repairers, General Utility	85132	92	1.3	6	97	87	27.9
Precision Instrument Repairers	85905	78	1.1	12	88	68	11.6
All Other Mechanics, Installers And Repairers	85999	6	0.1	NA	-	-	NA
All Other Const. Trades Wkrs.	87899	15	0.2	NA	-	-	NA
Tool & Die Makers	89102	94	1.3	1	95	93	16.3
Precision Instrument Makers	89105	41	0.6	6	44	38	7.0
Machinists	89108	66	0.9	6	70	62	30.2
Tool Grinders, Filers, Sharpeners, & Other Precision Grinders	89111	16	0.2	11	18	14	14.0
Sheet Metal Workers	89132	18	0.3	10	20	16	11.6
All Other Precision Metal Workers	89199	28	0.4	NA	-	-	NA
Precision Detail Design Decorators & Painters	89911	19	0.3	45	27	11	7.0
Precision Optical Goods Wkrs.	89917	33	0.5	35	44	22	11.6
All Other Precision Workers	89999	85	1.2	NA	-	-	NA
Lathe & Turning Machine Tool Setters & Set-Up Operators, Metal & Plastic	91105	48	0.7	0	48	48	7.0
Drilling & Boring Machine Tool Setters & Set-Up Operators, Metal & Plastic	91108	18	0.3	8	19	17	11.6
Grinding, Lapping, & Buffing Machine Tool Setters & Set-Up Operators, Metal & Plastic	91114	18	0.3	0	18	18	7.0
Machine Tool Cutting Operators & Tenders, Metal & Plastic	91117	74	1.0	2	75	73	7.0
Punching Machine Setters & Set-Up Operators, Metal And Plastic	91302	41	0.6	2	42	40	14.0

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Numerical Control Machine Tool and Tenders, Metal and Plastic	91502	14	0.2	3	14	14	7.0
All Other Metal and Plastic Machine Setters and Set-Up Operators	92197	46	0.6	NA	-	-	NA
All Other Metal and Plastic Machine Operators and Tenders	92198	88	1.2	NA	-	-	NA
Coating, Painting, and Spraying, Machine Operators and Tenders	92953	17	0.2	9	19	15	9.3
All Other Machine Setters and Set-Up Operators	92997	27	0.4	NA	-	-	NA
All Other Machine Operators And Tenders	92998	143	2.0	NA	-	-	NA
Electrical & Electronic Equipment Assemblers-Precision	93114	307	4.3	9	336	278	25.6
All Other Precision Assemblers, Metal	93197	657	9.3	NA	-	-	NA
Electrical & Electronic Assemblers	93905	698	9.9	4	729	667	25.6
Welders And Cutters	93914	30	0.4	3	31	29	9.3
Solderers & Brazers	93917	47	0.7	5	50	44	9.3
Painting, Coating, & Decorating Workers, Hand	93947	11	0.2	0	11	11	7.0
Grinding & Polishing Workers, Hand	93953	19	0.3	2	19	19	11.6
Assemblers, And Fabricators-Except Machine, Electrical, Electronic & Precision	93956	626	8.9	9	682	570	37.2
All Other Hand Workers	93999	6	0.1	NA	-	-	NA
All Other Plant & System Operators	95099	3	*	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.2	0	11	11	9.3
All Other Motor Vehicle Operators	97199	7	0.1	NA	-	-	NA
All Other Trans. & Related Workers	97899	1	*	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	28	0.4	NA	-	-	NA

STAFFING PATTERNS

INSTRUMENTS AND RELATED PRODUCTS

(SIC 38)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Machine Feeders & Offbearers	98502	12	0.2	34	16	8	7.0
Freight, Stock, And Material Movers, Hand	98700	34	0.5	6	36	32	
All Other Helpers, Laborers, And Material Movers, Hand	98999	6	0.1	NA	-	-	NA

* Less Than 0.05 Percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Budget Analysts
Carpenters
Chemists
Chemical Engineers
Chemical Technicians and Technologists, Except Health
Chemical Equipment Controllers and Operators
Chemical Equipment Tenders
Chemical Plant and System Operators
Cleaning, Washing, and Pickling Equipment Operators and Tenders
Coating, Painting, and Spraying Machine Setters and Set-Up Operators
Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
Combination Machine Tool Operators and Tenders, Metal and Plastic
Computer Programmer Aides
Cost Estimators
Crushing, Grinding, Mixing, and Blending Machine operators
Electromechanical Equipment Assemblers-Precision
Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
Electrolytic Plating and Coating Machine operators and Tenders, Metal and Plastic
Electricians
File Clerks
First Line Supervisors and Manager/ Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/ Supervisors-Service
Food and Beverage Preparation and Service Occupations
Gardeners and Groundskeepers
Guards and Watch Guards
Hand Packers and Packagers
Heattreating, Annealing, and Tempering Machine Operators and Tenders
Industrial Engineering Technicians and Technologists
Industrial Truck and Tractor Operators
Machinery Maintenance Workers
Machine Forming Operators and Tenders, Metal and Plastic
Machine Builders and Other Precision Machine Assemblers
Medical Appliance Makers
Metallurgists and Metallurgical, Ceramic, and Materials Engineers
Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
Metal Molding, Coremaking, and Casting Machine Operators and Tenders
Milling and Planing Machine Setters and Set-up Operators, Metal and Plastic
Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
Order Clerks
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Peripheral EDP Equipment Operators
Physicists and Astronomers
Plumbers and Pipefitters
Press and Press Brake Machine Setters and Set-Up Operators
Programmers-Numerical, Tool, and Process Control
Receptionists and Information Clerks
Sewing Machine Operators, Non-garment
Shear and Slitter Machine Setters and Set-Up Operators
Soldering and Brazing Machine Operators and Tenders
Technical Writers
Truck Drivers, Heavy
Watch, Clock, and Chronometer Assemblers, Adjusters, and Calibrators-Precision
Weighers, Measurers, Checkers, and Samplers-Recordkeeping
Writers and Editors

OCCUPATIONAL EMPLOYMENT
DURABLE GOODS MANUFACTURING
MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens; pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

Wage and salary workers in miscellaneous manufacturing industries totaled 1,778 during the survey month of May 1983. This was a loss of 226 workers (or 11 percent) from a similar survey conducted three years earlier.

Our sample consisted of 34 units representing an employment of 1,673. Usable responses were received from 27 units or 79 percent of the units sampled. The reported employment was 1,370 or 82 percent of the employment in the sample.

THE ELEVEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	89311	Cabinetmakers and Bench Carpenters	158
2	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic, and Precision	122
3	92721	Sewing Machine Operators, Non-garment	107
4	92314	Woodworking Machine Operators Tenders, Except Sawing	100
5	98502	Machine Feeders and Offbearers	92
6	98902	Hand Packers and Packagers	91
7	49008	Other Sales Representatives, Except Retail	58
8	19005	General Managers and Top Executives	56
9	55347	General Office Clerks	41
	98700	Freight, Stock, and Material Movers	
11	91117	Machine Tool Cutting Operators and Tenders, Metal and Plastic	37

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	61.3
2	55100	Secretaries	41.9
3	58028	Traffic, Shipping and Receiving Clerks	38.7
4	55338	Bookkeeping, Accounting, and Auditing Clerks	35.5
	55347	General Office Clerks	35.5

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,778	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	98	5.5				
General Managers And Top Executives	13002	56	3.1	19	67	45	61.3
All Other Managers And Administrators	19999	42	2.4	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	70	3.9				
All Other Financial Specialists	21199	11	0.6	NA	-	-	NA
Purchasing Agents	21308	12	0.7	15	14	10	25.8
All Other Management Support Workers	21999	4	0.2	NA	-	-	NA
All Other Engineers	22199	12	0.7	NA	-	-	NA
All Other Engineering And Related Technicians	22599	5	0.2	NA	-	-	NA
All Other Physical And Life Science Technicians	24599	1	0.1	NA	-	-	NA
Designers	34038	18	1.0	30	23	13	22.6
All Other Professional, Paraprofessional And Technical Workers	39999	7	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	105	5.9				
First Line Supervisors And Manager/Supervisors	41002	20	1.1	23	25	15	12.9
Other Sales Representatives	49008	58	3.3	9	63	53	22.6
All Other Sales And Related Workers	49999	27	1.5	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	163	9.2				
Secretaries	55100	25	1.4	22	30	20	41.9
Order Clerks	55323	12	0.7	12	13	11	16.1

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Bookkeeping, Accounting, And Auditing Clerks	55338	18	1.0	15	21	15	35.5
General Office Clerks	55347	41	2.3	14	47	35	35.5
All Other Office Machine Operators	56099	9	0.5	NA	-	-	NA
Traffic, Shipping, And Receiving Clerks	58028	24	1.4	17	28	20	38.7
All Other Material Recording Scheduling And Distribution Workers	58099	7	0.4	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	27	1.5	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	21	1.2				
Janitors And Cleaners	67005	16	0.9	11	18	14	22.6
All Other Cleaners And Building Service Workers	67099	1	0.1	NA	-	-	NA
All Other Service Workers	69999	4	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	1	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,320	74.2				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	36	2.0	13	41	31	32.3
Maintenance Repairers, General Utility	85132	16	0.9	37	32	10	25.8
All Other Mechanics, Repairers And Installers	85999	25	1.4	NA	-	-	NA
All Other Construction Trades Workers	87899	69	3.9	NA	-	-	NA
All Other Precision Metal Workers	89199	38	2.1	NA	-	-	NA

STAFFING PATTERNS

MISCELLANEOUS MANUFACTURING INDUSTRIES

(SIC 39)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Wood Machinists	89308	10	0.6	23	12	8	9.7
Cabinetmakers & Bench Carpenters	89311	158	8.9	32	208	108	12.9
All Other Precision Woodworkers	89399	18	1.0	NA	-	-	NA
Precision Detail Design Decorators And Painters	89911	15	0.8	37	20	10	12.9
All Other Precision Workers	89999	21	1.2	NA	-	-	NA
Machine Tool Cutting Operators And Tenders, Metal & Plastics	91117	37	2.1	13	42	32	9.7
All Other Metal & Plastic Machine Setters & Set-Up Operators	92197	20	1.1	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	11	0.6	NA	-	-	NA
Woodworking Machine Operators And Tenders, Except Sawing	92314	100	5.6	22	122	78	9.7
Woodworking Machine Operators And Tenders, Except Sawing							
Screen Printing Machine Setters & Set-Up Operators	92524	16	0.9	25	20	12	16.1
Sewing Machine Operators, Non-Garment	92721	107	6.0	8	116	98	29.0
All Other Machine Setters & Set-Up Operators	92997	77	4.3	NA	-	-	NA
All Other Machine Operators And Tenders	92998	123	6.9	NA	-	-	NA
Painting, Coating, And Decorating Workers, Hand	93947	26	1.5	46	38	14	16.1
Assemblers, And Fabricators-Except Machine, Electrical, Electronic, And Precision	93956	122	6.9	4	127	117	9.7
All Other Hand Workers	93999	13	0.7	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	13	0.7	45	19	7	9.7
All Other Transportation And Related Workers	97899	2	0.1	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	7	0.4	NA	-	-	NA
Machine Feeders & Offbearers	98502	92	5.2	32	121	63	12.9
Freight, Stock, & Material Movers, Hand	98700	41	2.3	10	45	37	25.8
Hand Packers And Packagers	98902	91	5.1	5	95	87	16.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	16	0.9	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Carpenters
Chemical Technicians and Technologists
Coating, Painting, and Spraying Machine Setters and Set-Up Operators
Computer Programmers
Computer Programmer Aides
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Cutting and Slicing Machine Setters and Set-Up Operators
Data Entry Keyers
Electricians
Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
File Clerks
Financial Managers
First Line Supervisor and Manager/ Supervisors-Clerical and Administrative Support Workers
First Line Supervisor and Manager/ Supervisors-Construction Trades and Extractive Workers
First Line Supervisor and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
First Line Supervisor and Manager/ Supervisors-Mechanics, Installers, and Repairers
Gardeners and Groundskeepers
Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators
Grinding, and Polishing Workers, Hand
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Industrial Production Managers
Industrial Truck and Tractor Operators
Mechanical Engineers
Metal Molding, Coremaking, and Casting Machine Operators
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Precision Compositors, Typesetters, and Arrangers
Precision Etchers and Engravers, Hand or Machine
Precision Hand Workers, Jewelry and Related Products
Precision Inspectors, Testers, and Graders
Precision Molders, Shapers, Casters and carvers, Except Jewelry and Foundry
Printing Press Machine Setters and Set-Up Operators
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Production, Planning, and Expediting Clerks
Purchasing Managers
Receptionists and Information Clerks
Sales Representatives, Scientific and Related Products and Services
Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic
Sawing Machine Setters and Set-Up Operators
Sawing Machine Operators and Tenders
Sewing Machine Operators, Garment
Sheet Metal Workers
Solderers and Brazers
Stock Clerks, Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tool and Die Makers

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Jewelers and Silversmiths
Machinists
Machinery Maintenance Mechanics
Machinery Maintenance Workers
Marketing, Advertising, and Public Relations Managers
Mechanic and Repairer Helpers
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Typist
Typist, Word Processor
Woodworking Machine Setters and Set-Up Operators

SUMMARY
OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING

(SIC 20 - 23, 26 - 31)

There were 40,478 wage and salary workers employed in the nondurable goods manufacturing sector during the occupational survey period of the second quarter of 1983. The largest major occupational group was production, construction, operating, maintenance, and material handling with 30,403 workers representing over 75 percent of the total employment. This was followed by the clerical and administrative support group with 4,389 workers, or almost 11 percent and the managerial group with 2,166 employees or more than five percent of the total employment in the nondurable goods sector. The seven occupations employing the largest number of workers combined to make up almost 24 percent of the total estimated employment in nondurable goods manufacturing.

THE TWENTY OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS

LISTED BY ORDER OF RANK

RANK	CODE	OCCUPATIONAL TITLE	EMPLOYMENT	PERCENT OF TOTAL
1	92723	Shoe Sewing Machine Operators and Tenders	2,071	5.1
2	98902	Hand Packers and Packagers	1,333	3.3
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	1,331	3.3
4	92717	Sewing Machine Operators, Garment	1,309	3.2
5	93956	Assemblers and Fabricators-Except Machine, Electrical, Electronic and Precision	1,288	3.2
6	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	1,174	2.9
7	19005	General Managers and Top Executives	1,116	2.8
8	98502	Machine Feeders and Offbearers	990	2.4
9	92956	Cementing and Gluing Machine Operators and Tenders	851	2.1
10	98700	Freight, Stock, and Material Movers, Hand	642	1.6
11	49008	Other Sales Representatives, Except Retail	615	1.5
12	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	583	1.4
13	55347	General Office Clerks	564	1.4
14	55100	Secretaries	562	1.4
15	91905	Plastic Molding and Casting Machine Operators and Tenders	549	1.4
16	92974	Packaging and Filling Machine Operators and Tenders	531	1.3
17	85132	Maintenance Repairers, General Utility	496	1.2
18	93926	Cutters and Trimmers, Hand	491	1.2
19	92543	Printing Press Machine Operators and Tenders	473	1.2
20	92944	Cutting and Slicing Machine Operators and Tenders	449	1.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATION		40,478	100.0
MANAGERS AND ADMINISTRATIORS	10000-19999	2,166	5.4
Financial Managers	13002	116	0.3
Personnel, Training, And Labor Relations Managers	13005	69	0.2
Purchasing Managers	13008	52	0.1
Marketing, Advertising, And Public Relations	13011	130	0.3
Administrative Services Managers	13014	54	0.1
Industrial Production Managers	15014	408	1.0
General Managers And Top Executives	19005	1,116	2.8
All Other Managers And Administrators	19999	221	0.6
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICICAL OCCUPATIONS	20000-39999	1,764	4.4
Accountants And Auditors	21114	170	0.4
Budget Analysts	21117	16	*
All Other Financial Specialists	21199	20	0.1
Purchasing Agents And Buyers, Farm Products	21305	15	*
Purchasing Agents, Except Farm Products	21308	71	0.2
Personnel, Training, And Labor Relations Specialists	21511	46	0.1
Cost Estimators	21902	48	0.1
All Other Management Support Workers	21999	104	0.3
Chemical Engineers	22114	30	0.1
Electrical And Electronics Engineers	22126	29	0.1
Industrial Engineers, Except Safety	22128	89	0.2

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Safety Engineers, Except Mining	22132	11	*
Mechanical Engineers	22135	63	0.2
All other Engineers	22199	17	*
Industrial Engineering Technicians And Technologists	22508	11	*
Drafters	22514	47	0.1
All other Engineering And Related Technicians And Technologists	22599	33	0.1
Physicists And Astronomers	24102	10	*
Chemists	24105	52	0.1
All Other Physical Scientists	24199	3	*
Biological, Agricultural, And Food Technicians And Technologists, Except Health	24502	20	0.1
Chemical Technicians And Technologists, Except Health	24505	74	0.2
All Other Physical And Life Science Technicians And Technologists	24599	9	*
Systems Analysts, Electronic Data Processing	25102	31	0.1
Computer Programmers	25105	101	0.3
Computer Programmer Aides	25108	42	0.1
Health Practioners, Technologists, Technicians, And Related Health Occupations	32000	22	0.1
All Other Health Professionals, Paraprofessionals, And Technicians	32999	2	*
Writers And Editors	34002	190	0.5
Reporters And Correspondents	34011	174	0.4
Photographers	34023	14	*
Artists And Related Workers	34035	10	*
Designers	34038	160	0.4
All other Professional, Paraprofessional, And Technical Workers	39999	30	0.1
SALES OCCUPATIONS	40000-49999	1,208	3.0

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors And Manager/Supervisors-Sales And Related Occupations	41002	129	0.3
Sales Agents, Advertising	43023	93	0.2
Sales Engineers	49002	16	*
Sales Representatives, Scientific And Related Products And Services	49005	169	0.4
Other Sales Representatives	49008	615	1.5
Salespersons, Retail	49011	22	0.1
News And Street Vendors, Telephone Solicitors, Door To Door Sales Workers, And Other Related Workers	49026	13	*
All Other Sales And Related Workers	49999	151	0.4
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	4,389	10.8
First Line Supervisors And Manager/Supervisors-Clerical And Administrative Support Occupations	51002	200	0.5
Advertising Clerks	53908	33	0.1
Proofreaders And Copy Markers	53911	113	0.3
Secretaries	55100	562	1.4
Stenographers	55302	12	*
Receptionists And Information Clerks	55305	64	0.2
Typists	55308	122	0.3
Typists, Word Processor	55311	43	0.1
Personnel Clerks	55314	50	0.1
File Clerks	55321	40	0.1
Order Clerks	55323	169	0.4
Procurement Clerks	55326	40	0.1
Bookkeeping, Accounting, And Auditing Clerks	55338	408	1.0
Payroll And Timekeeping Clerks	55341	137	0.3
Billing, Cost And Rate Clerks	55344	135	0.3
General Office Clerks	55347	564	1.4

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Billing, Posting, And Calculating Machine Operators	56002	14	*
Mail Machine Operators, Preparation And Handling	56008	64	0.2
Computer Operators	56011	56	0.1
Peripheral EDP Equipment Operators	56014	10	*
Data Entry Keyers	56017	119	0.3
Data Keyers, Composing	56021	132	0.3
All Other Office Machine Operators	56099	5	*
Switchboard Operators	57102	55	0.1
Mail Clerks, Except Mail Machine Operators And Postal Service	57302	58	0.1
Production, Planning, And Expediting Clerks	58008	180	0.4
Weighers, Measurers, Checkers, And Samplers-Record Keeping	58017	28	0.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	305	0.8
Traffic, Shipping, And Receiving Clerks	58028	441	1.1
All other Material Recording, Scheduling, And Distributing Workers	58099	161	0.4
All Other Clerical And Administrative Support Workers	59999	69	0.2
SERVICE OCCUPATIONS	60000-69999	498	1.2
First Line Supvervisors And Manager/Supervisors-Service	61000	50	0.1
Guards And Watch Guards	63047	83	0.2
Food Beverage Preparation And Service Occupations	65000	14	*
Janitors And Cleaners	67005	294	0.7
Elevator Operators	67011	11	*
All other Cleaning And Building Service Workers, Except Private Households	67099	27	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Service Workers	69999	19	0.1
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	50	0.1
All Other Timber Cutting And Related Logging Workers	73099	8	*
All other Agricultural, Forestry, Fishing, And Related Workers	79999	42	0.1
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	30,403	75.1
First Line Supervisors And Manager/Supervisors-Mechanics, Installers And Repairers	81002	76	0.2
First Line Supervisors And Manager/Supervisors-Construction Trades And Extractive Workers	81005	27	0.1
First Line Supervisors, And Manager/Supervisors-Production And Operating Workers	81008	1,253	3.1
First Line Supervisors And Manager/Supervisors-Transportation And Material Moving Machine And Vehicle Occupations	81011	68	0.2
First Line Supervisors And Manager/Supervisors-Helpers, Laborers, And Material Movers, Hand	81017	88	0.2
Precision Inspectors, Testers, And Graders	83002	93	0.2
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	1,331	3.3

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Machinery Maintenance Mechanics	85110	285	0.7
Machinery Maintenance Mechanics-Textile Machines	85112	137	0.3
Machinery Maintenance Mechanics-Sewing Machines	85113	52	0.1
Machinery Maintenance Mechanics-Water Or Power Generation Plant	85118	160	0.4
All Other Machinery Maintenance Mechanics	85119	122	0.3
Millwrights	85123	68	0.2
Machinery Maintenance Workers	85128	107	0.3
Maintenance Repairers, General Utility	85132	496	1.2
Automotive Mechanics	85302	28	0.1
Bus And Truck Mechanics, And Diesel Engine Specialists	85311	10	*
Precision Instrument Repairers	85905	34	0.1
Mechanical Control And Valve Installers And Repairers	85928	14	*
Riggers	85935	18	*
Coin And Vending Machine Servicers And Repairers	85947	30	0.1
Menders	85956	50	0.1
All other Mechanics, Installers And Repairers	85999	45	0.1
Carpenters	87102	36	0.1
Electricians	87202	144	0.4
Painters And Paperhangers	87402	105	0.3
Plumbers And Pipefitters	87502	97	0.2
All other Construction Trades Workers	87899	29	0.1
Tool And Die Makers	89102	138	0.3
Machinists	89108	232	0.6
Tool Grinders, Filers, Sharpeners, And Other Precision Grinders	89111	78	0.2
Sheet Metal Workers	89132	14	*
All Other Precision Metal Workers	89199	6	*
Precision Woodworkers	89300	23	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Fabric And Apparel Pattermakers, And Layout Workers	89502	47	0.1
Custom Tailors And Sewers	89505	25	0.1
Shoe And Leather Workers And Repairers-Precision	89511	338	0.8
Precision Dyers	89521	13	*
All other Precision Textile, Apparel, And Furnishings Workers	89599	60	0.1
Precision Compositors, Typesetters, And Arrangers	89702	124	0.3
Job Printers	89705	35	0.1
Precision Lithography And Photoengraving Workers	89708	248	0.6
Bookbinders	89711	32	0.1
All other Precision Printing Workers	89799	127	0.3
Bakers, Manufacturing	89805	30	0.1
All other Precision Food And Tobacco Workers	89899	22	0.1
Precision Detail Design Decorators And Painters	89911	35	0.1
All Other Precision Workers	89999	129	0.3
Press And Press Brake Machine Setters And Set-Up Operators, Metal And Plastic	91305	40	0.1
Rolling Machine Setters And And Set-Up Operators, Metal And Plastic	91314	11	*
Machine Forming Operators And Tenders, Metal And Plastic	91321	373	0.9
Combination Machine Tool Setters And Set-Up Operators, Metal And Plastic	91505	67	0.2
Combination Machine Tool Operators And Tenders, Metal And Plastic	91508	46	0.1
Plastic Molding And Casting Machine Setters And Set-Up Operators	91902	227	0.6
Plastic Molding And Casting Machine Operators And Tenders	91905	549	1.4

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	8	*
All Other Metal And Plastic Machine Operators And Tenders	92198	61	0.2
Offset Lithographic Press Setters And Set-Up Operators	92512	233	0.6
Letterpress Setters And Set-Up Operators	92515	80	0.2
Photoengraving And Lithographing Photographers	92521	74	0.2
Specialty Materials, Printing Machine Setters And Set-Up Operators	92522	98	0.2
Bindery Machine Setters And Set-Up Operators	92525	62	0.2
All other Printing Related Setters And Set-Up Operators	92529	47	0.1
Typesetting And Composing Machine Operators And Tenders	92541	149	0.4
Printing Press Machine Operators And Tenders	92543	473	1.2
Bindery Machine Operators	92546	156	0.4
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	167	0.4
Textile Machine Setters And Set-Up Operators	92902	215	0.5
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,174	2.9
Extruding And Forming Machine Operators And Tenders, Synthetic Or Glass Fibers	92708	39	0.1
Textile Draw-Out Machine Operators And Tenders	92711	63	0.2
Textile Bleaching And Dyeing Machine Operators And Tenders	92714	238	0.6

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Sewing Machine Operators, Garment	92717	1,309	3.2
Sewing Machine Operators, Non-Garment	92721	281	0.7
Shoe Sewing Machine Operators And Tenders	92723	2,071	5.1
Pressing Machine Operators And Tenders	92728	119	0.3
Paper Goods Machine Setters And Set-Up Operators	92914	367	0.9
Cooking Machine Operators And Tenders, Food And Tobacco	92917	39	0.1
Roasting, Baking, And Drying Machine Operators And Tenders, Food And Tobacco	92921	32	0.1
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	74	0.2
Boiler Operators And Tenders	92926	87	0.2
Dairy Processing Equipment Operators, Including Setters	92932	13	*
Chemical Equipment Controllers And Operators	92935	93	0.2
Chemical Equipment Tenders	92938	46	0.1
Cutting And Slicing Machine Setters And Set-Up Operators	92941	99	0.2
Cutting And Slicing Machine Operators And Tenders	92944	449	1.1
Coating, Painting, And Spraying Machine Setters And Set-Up Operators	92951	123	0.3
Coating, Painting, And Spraying Machine Operators And Tenders	92953	84	0.2
Cementing And Gluing Machine Operators And Tenders	92956	851	2.1
Cleaning, Washing, And Pickling Equipment Operators And Tenders	92958	12	*
Separating, Filtering, Clarifying, Precipitating, And Still Machine Operators And Tenders	92962	44	0.1

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	346	0.9
Extruding, Forming, Pressing, And Compacting Machine Setters And Set-Up Operators	92968	41	0.1
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	583	1.4
Packaging And Filling Machine Operators And Tenders	92974	531	1.3
All other Machine Setters And Set-Up Operators	92997	413	1.0
All Other Machine Operators And Tenders	92998	785	1.9
Welders And Cutters	93914	40	0.1
Pressers, Hand	93921	80	0.2
Sewers, Hand	93923	328	0.8
Cutters And Trimmers, Hand	93926	491	1.2
Portable Machine Cutters	93928	106	0.3
Meat, Poultry, And Fish Cutters And Trimmers, Hand	93938	139	0.3
Molders And Casters, Hand	93944	60	0.2
Painting, Coating, And Decorating Workers, Hand	93947	14	*
Assemblers And Fabricators-Except Machine, Electrical, Electronic And Precision	93956	1,288	3.2
All Other Hand Workers	93999	1,375	3.4
Stationary Engineers	95032	46	0.1
All Other Plant And System Operators	95099	49	0.1
Truck Drivers, Heavy Or Tractor Trailer	97102	171	0.4
Truck Drivers, Light-Include Delivery And Route Workers	97105	129	0.3
Driver/Sales Workers	97117	275	0.7
All Other Motor Vehicle Operators	97199	16	*
Railroad Brake, Signal, And Switch Operators	97317	10	*
All Other Transportation And Related Workers	97899	10	*

STAFFING PATTERNS

NONDURABLE GOODS MANUFACTURING

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1983 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Crane And Tower Operators	97944	13	*
Industrial Truck And Tractor Operators	97947	305	0.8
Conveyor Operators And Tenders	97951	32	0.1
All Other Material Moving Equipment Operators	97999	61	0.2
Mechanic And Repairer Helpers	98102	49	0.1
Machine Feeders And Offbearers	98502	990	2.4
Freight, Stock, And Material Movers, Hand	98700	642	1.6
Hand Packers And Packagers	98902	1,333	3.3
Vehicle Washers And Equipment Cleaners	98905	39	0.1
All Other Helpers, Laborers, And Material Movers, Hand	98999	2,011	5.0

* Less than 0.05 percent

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FOOD AND KINDRED PRODUCTS

(SIC 20)

This major group includes establishments manufacturing or processing foods and beverages for human consumption and certain related products, such as manufactured ice, chewing gum, - vegetable and animal fats and oils, and prepared feeds for animals and fowls.

During the survey month of June 1983 there were 2,849 wage and salary workers in the food and kindred products manufacturing group. This was a loss of 88 workers (or 3 percent) from a similar survey conducted three years earlier.

Our sample consisted of 48 units representing an employment of 2,745. Usable responses were received from 35 units or 73 percent of the units sampled. The reported employment was 2,166 or 79 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	98902	Hand Packers and Packagers	328
2	92974	Packaging and Filing Machine Operators and Tenders	286
3	97117	Driver/Sales Workers	250
4	93938	Meat, Poultry, and Fish Cutters and Trimmers-Hand	139
5	98700	Freight, Stock, and Material Movers, Hand	100
6	19005	General Managers and Top Executives	77
7	49008	Other Sales Representatives, Except Retail	76
8	55338	Bookkeeping, Accounting, and Auditing Clerks	74
9	81008	First Line Supervisors and Manager Supervisors-Production and and Operating Workers	72
10	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	67

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	68.6
2	55338	Bookkeeping, Accounting, and Auditing Clerks	62.9
3	92974	Packaging and Filling Machine Operators and Tenders	48.6
4	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	42.9
5	97117	Driver/Sales Workers	37.1

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		2,849	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	124	4.4				
Financial Managers	13002	10	0.4	24	12	8	14.3
Industrial Production Managers	15014	11	0.4	8	12	10	11.4
General Managers And Top Executives	19005	77	2.7	15	89	65	68.6
All Other Managers And Administrators	19999	26	0.9	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	85	3.0				
Accountants And Auditors	21114	14	0.5	26	18	10	20.0
All Other Financial Specialists	21199	8	0.3	NA	-	-	NA
All Other Management Support Workers	21999	21	0.7	NA	-	-	NA
All Other Engineers	22199	16	0.6	NA	-	-	NA
All Other Engineering And Related Technicians	22599	3	0.1	NA	-	-	NA
All Other Physical Scientists	24199	1	*	NA	-	-	NA
All Other Life Scientists	24399	1	*	NA	-	-	NA
All Other Physical And Life Science Technicians	24599	15	0.5	NA	-	-	NA
All Other Health Professionals And Technicians	32999	2	0.1	NA	-	-	NA
All Other Professional, Paraprofessional And Technical Workers	39999	4	0.2	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	120	4.2				
Other Sales Representatives Except Retail	49008	76	2.7	40	107	45	28.6
All Other Sales And Related Workers	49999	44	1.5	NA	-	-	NA

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	305	10.7				
First Line Supervisors And Manager/Supervisors	51002	14	0.5	8	15	13	11.4
Secretaries	55100	28	1.0	23	35	21	28.6
Bookkeeping, Accounting, And Auditing Clerks	55338	74	2.6	9	81	67	62.9
General Office Clerks	55347	53	1.9	24	66	40	28.6
Data Entry Keyers	56017	11	0.4	14	13	9	11.4
All Other Office Machine Operators	56099	16	0.6	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	21	0.7	16	24	19	8.6
Stock Clerks-Stockroom Warehouse Or Storage Yard	58023	12	0.4	25	15	9	11.4
Traffic, Shipping, And Receiving Clerks	58028	31	1.1	18	37	25	34.3
All Other Material Recording Scheduling & Dist. Workers	58099	6	0.2	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	39	1.3	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	29	1.0				
Janitors And Cleaners	67005	20	0.7	12	22	18	28.6
All Other Service Workers	69999	9	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	3	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	2,183	76.6				
First Line Supervisors And Manager/Supervisor, Mechanics Installers, And Repairers	81002	14	0.5	14	16	12	11.4
First Line Supervisors And Managers/Supervisors, Production And Operating Workers	81008	72	2.5	10	79	65	42.9

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
First Line Supervisors And Manager/Supervisors-Transportation & Material Moving Machine & Vehicle Occupations	81011	20	0.7	4	21	19	11.4
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	17	0.6	7	18	16	20.0
Machinery Maintenance Machanics	85110	31	1.1	12	35	27	20.0
Machinery Maintenance Workers	85128	14	0.5	22	17	11	8.6
Maintenance Repairers, General Utility	85132	22	0.8	16	26	18	22.9
Automotive Mechanics	85302	16	0.6	36	22	10	8.6
Coin & Vending Machine Servicers & Repairers	85947	30	1.1	42	42	18	11.4
All Other Mechanics, Repairers, And Installers	85999	53	1.9	NA	-	-	NA
All Other Construction Trades Workers	87899	39	1.3	NA	-	-	NA
Bakers, Manufacturing	89805	30	1.1	15	34	26	8.6
All Other Precision Food Workers	89899	52	1.8	NA	-	-	NA
Cooking Machine Operators And Tenders, Food	92917	39	1.3	14	45	33	20.0
Roasting, Baking, And Drying Machine Operators & Tenders	92921	32	1.1	19	38	26	11.4
Cutting & Slicing Machine Setters and Set-Up Operators	92941	48	1.7	5	50	46	20.0
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	67	2.4	7	72	62	28.6
Packaging And Filling Machine Operators and Tenders	92974	286	10.0	19	339	233	48.6
All Other Machine Setters & Set-Up Operators	92997	25	0.9	NA	-	-	NA
All Other Machine Operators And Tenders	92998	32	1.1	NA	-	-	NA
Meat, Poultry, And Fish Cutters And Trimmers-Hand	93938	139	4.9	15	160	118	14.3
All Other Hand Workers	93999	18	0.6	NA	-	-	NA
All Other Plant & System Operators	95099	11	0.4	NA	-	-	NA

STAFFING PATTERNS

FOOD AND KINDRED PRODUCTS

(SIC 20)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Truck Drivers, Heavy Or Tractor Trailer	97102	46	1.6	17	54	38	28.6
Truck Drivers, Light-Include Delivery & Route Workers	97105	52	1.8	22	64	40	22.9
Driver/Sales Workers	97117	250	8.8	25	312	188	37.1
All Other Motor Vehicle Operators	97199	13	0.5	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	54	1.9	7	58	50	28.6
All Other Material Moving Equipment Operators	97999	17	8.6	NA	-	-	NA
Freight, Stock, And Material Movers, Hand	98700	100	3.5	13	113	87	20.0
Hand Packers And Packagers	98902	328	11.5	7	350	306	31.4
Vehicle Washers And Equipment Cleaners	98905	39	1.3	12	44	34	11.4
All Other Helpers, Laborers, And Material Movers, Hand	98999	177	6.2	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Biological, Agricultural, and Food Technicians and Technologists, Except Health
Biological Scientists
Bus and Truck Mechanics and Diesel Engine Specialists
Cannery Workers
Carpenters
Chemical Technicians and Technologists, Except Health
Biological Scientists
Bus and Truck Mechanics and Diesel Engine Specialists
Cannery Workers
Carpenters
Chemical Technicians and Technologists, Except Health
Cleaning, Washing, and Pickling Equipment operators and Tenders
Compliance Officers and Enforcement Inspectors
Computer Operators
Computer Programmers
Conveyor Operators and Tenders
Cooling and Freezing Equipment Operators and Tenders
Cost Estimators
Dairy Processing Equipment Operators, Including Setters
Drafters
Electricians
Extruding, Forming, Pressing, and Compacting Machines Operators and Tenders
File Clerks
First Line Supervisors, and Manager/ Supervisors-Construction Trades and Extractive Workers
First Line Supervisors, and Manager/ Supervisors-Sales and Related Occupations
First Line Supervisors, and Manager/ Supervisors-Agricultural, Forestry, Fishing and Related Occupations
Food Batch Makers
Food and Beverage Preparation and Service Occupations
Graders and Sorters, Agricultural Products
Guards and Watch Guards
Heating, Air Conditioning, and Refrigeration Merchanics and Installers
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Machine Feeder and Offbearers
Machinists
Marketing, Advertising and Public Relations Managers
Mechanical Engineers
Mechanical Control and Valve Installers and Repairers
Mechanic and Repairer Helpers
Mill Wrights
Order Clerks
Painters andPaperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Plumbers and Pipefitters
Procurement Clerks
Pump Operators
Purchasing Agents and Buyers, Farm Products
Purchasing Agents-Except Wholesale, Retail and Farm Products
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Salespersons, Retail
Sales Representatives, Scientific and Related Products and Service, Except Retail
Separating, Filtering Clarifying, Precipitating, and Still Machine Operators and Tenders
Sheet Metal Workers
Stationary Engineers
Switchboard Operators
Systems Analysts
Typists
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
TEXTILE MILL PRODUCTS

(SIC 22)

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knot fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric and knot apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the intergrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics and miscellaneous textiles.

During the survey month of April 1983 there were 3,862 wage and salary workers employed in the textile mill products industry, a loss of 1,023 jobs (or 21 percent) over the three year period since the previous survey of June 1980.

Our sample consisted of 41 units representing an employment of 4,051. Usable responses were received from 35 units or 85 percent of the units sampled. The reported employment was 3,063 or 76 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	1,027
2	92714	Textile Bleaching and Dyeing Machine Operators and Tenders	221
3	92702	Textile Machine Setters and Set-Up Operators	203
4	81008	First Line Supervisors and Manager/ Supervisors—Production and Operating Workers	188
5	92717	Sewing Machine Operators, Garment	150
6	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	138
7	85112	Machinery Maintenance Mechanics, Textile Machines	128
8	98502	Machine Feeders and Offbearers	113
9	19005	General Managers and Top Executives	96
10	92721	Sewing Machine Operators, Nongarment	83

THE SEVEN MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	77.1
2	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	74.3
3	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving, and Cutting	68.6
4	85132	Maintenance Repairers, General Utility	62.9
5	55100	Secretaries	60.0
	58028	Traffic, Shipping, and Receiving Clerks	60.0
	85112	Machinery Maintenance Mechanics, Textile Machines	60.0

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL OCCUPATIONS		3,862	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	146	3.8				
Industrial Production Mgrs.	15014	13	0.3	2	13	13	20.0
General Managers And Top Executives	19005	96	2.5	9	105	87	77.1
All Other Managers And All Other Managers And Administrators	19999	37	1.0	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	60	1.6				
Accountants And Auditors	21114	13	0.3	17	15	11	22.9
All Other Management Support Workers	21999	4	0.1	NA	-	-	NA
All Other Engineers	22199	8	0.2	NA	-	-	NA
All Other Engineering And Related Technicians	22599	6	0.2	NA	-	-	NA
All Other Physical Scientists	24199	3	0.1	NA	-	-	NA
Chemical Technicians & Technologists, Except Health	24505	15	0.4	36	20	10	8.6
All Other Professional, Paraprofessional And Technical Workers	39999	11	0.3	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	25	0.6				
Sales Representatives, Scientific & Related Products & Services	49005	11	0.3	35	15	7	11.4
Other Sales Representatives	49008	14	0.3	23	17	11	22.9

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	246	6.4				
First Line Supervisors And Manager/Supervisors	51002	12	0.3	11	13	11	8.6
Secretaries	55100	35	0.9	10	39	31	60.0
Bookkeeping, Accounting, And Auditing Clerks	55338	29	0.7	12	32	9	45.7
General Office Clerks	55347	41	1.1	11	46	36	45.7
All Other Office Machine Operators	56099	6	0.2	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	10	0.2	6	11	9	14.3
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	19	0.5	32	25	13	17.1
Traffic, Shipping, And Receiving Clerks	58028	39	1.0	9	43	35	60.0
All Other Material Recording Scheduling & Dist. Workers	58099	18	0.5	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	37	1.0	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	50	1.3				
Guards & Watch Guards	63047	14	0.4	9	15	13	11.4
Janitors & Cleaners	67005	35	0.9	8	38	32	42.9
All Other Cleaning And Building Service Workers	67099	1	*	NA	-	-	NA
AGRICULTURAL, FORESTRY FISHING, AND RELATED WORKERS	70000-79999	1	*	NA	-	-	NA

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,334	86.3				
First Line Supvrs. And Mgr/Supvrs. Production & Operating Wrks.	81008	188	4.9	9	205	171	74.3
Production Inspectors, Testers, Graders, Sorters, Samplers, And Weighers	83005	138	3.6	16	160	116	40.0
Machinery Maintenance Mechanics, Textile Machines	85112	128	3.3	6	136	120	60.0
All Other Machinery Maintenance Mechanics	85119	25	0.6	NA	-	-	NA
Maintenance Repairers, General Utility	85132	61	1.6	4	64	58	62.9
All Other Mechanics, Repairers, And Installers	85999	43	1.1	NA	-	-	NA
Electricians	87202	19	0.5	2	19	19	22.9
All Other Const. Trades Workers	87899	11	0.3	NA	-	-	NA
All Other Precision Metal Workers	89199	3	0.1	NA	-	-	NA
Precision Dyers	89521	13	0.3	13	15	11	8.6
All Other Precision Textile, Apparel And Furnishings Workers	89599	57	1.5	NA	-	-	NA
Textile Machine Setters And Set-Up Operators	92702	203	5.3	12	228	178	40.0
Textile Machine Operators And Tenders-Winding, Twisting, Knitting, Weaving, And Cutting	92705	1,027	26.6	6	1089	965	68.6

STAFFING PATTERNS

TEXTILE MILL PRODUCTS

(SIC 22)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Textile Draw-Out Machine Operators And Tenders	92711	63	1.6	39	88	38	11.4
Textile Bleaching And Dyeing Machine Operators & Tenders	92714	221	5.7	13	251	191	31.4
Sewing Machine Operators, Garment	92717	150	3.9	29	194	106	8.6
Sewing Machine Operators, Non- Garment	92721	83	2.1	35	112	54	20.0
Boiler Operators, Low Pressure	92926	13	0.3	10	14	12	11.4
Cutting & Slicing Machine Operators And Tenders	92944	50	1.3	26	63	37	17.1
Crushing, Grinding, Mixing, And Blending Machine Operators	92965	28	0.7	2	28	28	11.4
All Other Machine Setters & Set-Up Operators	92997	3	0.1	NA	-	-	NA
All Other Machine Operators And Tenders	92998	137	3.6	NA	-	-	NA
All Other Hand Workers	93999	139	3.7	NA	-	-	NA
All Other Plant And System Operators	95099	13	0.3	NA	-	-	NA
All Other Motor Vehicle Operators	97199	3	0.1	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	25	0.6	1	25	25	17.1
All Other Material Moving Equipment Operators	97999	29	0.7	NA	-	-	NA
Machine Feeders And Offbearers	98502	113	2.9	11	125	101	22.9
Freight, Stock, And Material Movers, Hand	98700	52	1.3	16	60	44	22.9
Hand Packers And Packagers	98902	26	0.7	12	29	23	14.3
All Other Helpers, Laborers, And Material Movers, Hand	98999	270	7.0	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators-Except Machine Electrical, Electronic and Precision
Automotive Mechanics
Billing, Cost and Rate Clerks
Carpenters
Carpet Cutters, Diagrammers, and Seamers
Chemists
Coating, Painting, and Spraying Setters and Set-Up Operators
Computer Operators
Computer Programmers
Computer Programmer Aides
Custom Tailors and Sewers
Cutting and Slicing Machine Setters and Set-Up Operators
Cutters and Trimmers, Hand
Designers
Drafters
Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers
Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders
Fabric and Apparel Patternmakers, and Layout Workers
File Clerks
Financial Managers
First Line Supervisors and Manager/Supervisors-Helpers, Laborers, and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation and Material Moving Machine and Vehicle Occupations
Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders
Gardeners and Groundskeepers
Health Practitioners, Technologists, Technicians, and Related Health Occupations
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing
Machinists
Machinery Maintenance Workers
Machinery Maintenance Mechanics, Sewing Machines
Machinery Maintenance Mechanics, Water or Power Generation Plant
Marketing, Advertising and Public Relations Managers
Mechanic and Repairer Helpers
Menders
Millwrights
Order Clerks
Packaging and Filling Machine Operators
Painters and Paperhangers
Payroll and Timekeeping Clerks
Peripheral EDP Equipment Operators
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Plumbers and Pipefitters
Portable Machine Cutters
Precision Inspectors, Testers, and Graders
Pressers, Hand
Pressing Machine Operators and Tenders
Procurement Clerks
Purchasing Agents and Buyers, Except Wholesale, Retail and Farm Products
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Sewers, Hand
Shoe Sewing Machine Operators
Stationary Engineers
Switchboard Operators
Systems Analyst
Truck Drivers, Light
Typists

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

This major group, known as the cutting-up and needles trades, includes establishments producing clothing and fabricating by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs.

There were 2,800 wage and salary workers employed in the apparel industry during the month of May 1983. This represents a drop of 80 workers, or approximately 3 percent from a similar survey during the same survey period of 1980.

Our sample consisted of 40 units representing an employment of 2,693. Usable responses were received from 28 units or 70 percent of the units sampled. The reported employment was 2,052 or 76 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92717	Sewing Machine Operators, Garment	1,159
2	83005	Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	122
3	92705	Textile Machine Operators and Tenders-Winding, Twisting, Knitting, Weaving and Cutting	115
4	98700	Freight, Stock and Material Movers, Hand	87
5	92728	Pressing Machine Operators and Tenders-Textile, Garment and Related Materials	85
6	19005	General Managers and Top Executives	68
7	93921	Pressers, Hand	64
8	93926	Cutters and Trimmers, Hand	63
9	92721	Sewing Machine Operators, Nongarment	61
10	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	50

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	92717	Sewing Machine Operators, Garment	85.7
2	19005	General Managers and Top Executives	75.0
3	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	67.8
4	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	60.7
5	55347	General Office Clerks	50.0
	85113	Machinery Maintenance Mechanics, Sewing Machines	50.0

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		2,800	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	121	4.4				
Administrative Services Managers	13014	18	0.6	22	22	14	10.7
Industrial Production Managers	15014	16	0.6	21	19	13	10.7
General Managers And Top Executives	19005	68	2.5	7	73	63	75.0
All Other Managers And Administrators	19999	19	0.7	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL TECHNICAL OCCUPATIONS	20000-39999	43	1.6				
All Other Financial Specialists	21199	8	0.3	NA	-	-	NA
All Other Management Support Workers	21999	8	0.3	NA	-	-	NA
All Other Engineers	22199	9	0.3	NA	-	-	NA
Designers	34038	10	0.4	30	13	7	14.2
All Other Professional, Para-Professional & Technical Workers	39999	8	0.3	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	83	2.9				
Other Sales Representatives, Except Retail	49008	26	0.9	16	30	22	14.2
All Other Sales & Related Workers	49999	57	2.0	NA	-	-	NA
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	221	7.9				
Secretaries	55100	21	0.8	11	23	19	35.7
Bookkeeping, Accounting, & Auditing Clerks	55338	15	0.5	19	18	12	25.0

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Payroll & Timekeeping Clerks	55341	27	1.0	17	31	23	28.5
General Office Clerks	55347	31	1.1	13	35	27	50.0
All Other Office Machine Operators	56099	16	0.6	NA	-	-	NA
Traffic, Shipping & Receiving Clerks	58028	14	0.5	11	15	13	42.8
All Other Material Recording, Scheduling & Distributing Workers	58099	46	1.6	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	51	1.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	38	1.3				
Janitors and Cleaners	67005	21	0.7	8	23	19	35.7
All Other Service Workers	69999	17	0.6	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	2,294	81.9				
First Line Supervisors & Managers/Supervisors-Production & Operating Workers	81008	50	1.8	15	57	43	60.7
Production Inspectors, Testers, Graders, Sorters, Samplers & Weighers	83005	122	4.4	22	149	95	67.8
Machinery Maintenance Mechanics, Sewing Machines	85113	27	1.0	10	30	24	50.0
All Other Machinery Maintenance Mechanics	85119	6	0.2	NA	-	-	NA
All Other Mechanics, Installers & Repairers	85999	40	1.5	NA	-	-	NA
Fabric & Apparel Patternmakers, & Layout Workers	89502	23	1.0	19	27	19	21.4
Custom Tailors & Sewers	89505	10	0.3	15	11	9	10.7
All Other Precision Textile, Apparel & Furnishings Workers	89599	9	0.3	NA	-	-	NA
Textile Machine Operators & Tenders-Winding, Twisting, Kniting, Weaving & Cutting	92705	115	4.1	25	144	86	14.2

STAFFING PATTERNS

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

(SIC 23)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
Sewing Machine Operators, Garment	92717	1,159	41.4	11	1,282	1,036	85.7
Sewing Machine Operators, non-Garment	92721	61	2.2	25	76	46	14.2
Pressing Machine Operators & Tenders-Textile, Garment & Related Materials	92728	85	3.0	15	98	72	35.7
All Other Machine Operators & Tenders	92998	63	2.2	NA	-	-	NA
Pressers, Hand	93921	64	2.2	12	72	56	25.0
Cutters & Trimmers, Hand	93926	63	2.2	17	73	53	25.0
Portable Machine Cutters	93928	43	1.6	12	48	38	39.2
All Other Hand Workers	93999	85	3.0	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.3	24	14	8	10.7
All Other Motor Vehicle Operators	97199	5	0.1	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	3	0.1	NA	-	-	NA
Machine Feeders & Offbearers	98502	10	0.3	24	12	8	10.7
Freight, Stock & Material Movers, Hand	98700	87	3.1	18	102	72	32.1
Hand Packers & Packagers	98902	27	1.0	18	32	22	21.4
All Other Helpers, Laborers & Movers Hand	98999	126	4.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Accountants and Auditors
Assemblers and Fabricators Except Machine, Electrical, Electronic and Precision
Billing, Cost and Rate Clerks
Budget Analysts
Computer Operators
Computer Programmers
Computer Programmer Aides
Cost Estimators
Cutting and Slicing Machine Setters and Set-Up Operators
Cutting and Slicing Machine Operators and Tenders
Data Entry Keyers
Elevator Operators
Financial Managers
First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations
First Line Supervisors and Manager/ Supervisors-Helpers, Laborers, and Material Movers, Hand
First Line Supervisors and Manager/ Supervisors-Sales and Related Occupations
Food and Beverage Preparation and Service Occupations
Furnace, Kiln, Oven, or Kettle Operators and Tenders
Guards and Watch Guards
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologist
Industrial Truck and Tractor Operators
Maintenance Mechanics, Textile Machines
Maintenance Repairers, General Utility
Marketing, Advertising, and Public Relations Managers
Marking Clerks
Menders
Order Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training, and Labor Relations Specialists
Pressers
Production, Planning and Expediting Clerks
Purchasing Managers
Receptionists and Information Clerks
Sales Representatives, Scientific and Related Products and Services
Sewers, Hand
Stenographers
Stock Clerks, Stockroom, Warehouse/ Storage Yard
Switchboard Operators
Systems Analysts
Textile Machine Setters and Set-Up Operators
Textile Bleaching and Dyeing Machine Operators and Tenders
Truck Drivers, Heavy
Typists

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PAPER AND ALLIED PRODUCTS

(SIC 26)

This major group includes establishments primarily engaged in the manufacturing of pulps from wood and other cellulose fibers, and from rags; the manufacturing of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes.

There were 5,320 wage and salary workers in the paper and allied products industries during the survey month of April 1983 which represents a decrease of 1,149 jobs or 18 percent from the estimated employment during the same month of 1980.

Our sample consisted of 42 units representing an employment of 5,869. Usable responses were received from 32 units or 76 percent of the units sampled. The reported employment was 4,227 or 72 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92914	Paper Goods Machine Setters and Set-Up Operators	348
2	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	309
3	98502	Machine Feeders and Offbearers	225
4	92944	Cutting and Slicing Machine Operators and Tenders	164
5	85132	Maintenance Repairers, General Utility	156
6	85118	Machinery Maintenance Mechanics, Water or Power Generation Plant	151
7	49008	Other Sales Representatives, Except Retail	150
8	97947	Industrial Truck and Tractor Operators	116
9	19005	General Managers and Top Executives	112
10	98700	Freight, Stock, and Material Movers, Hand	96

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line, Supervisors and Manager/Supervisors-Production and Operating Workers	87.5
2	19005	General Managers and Top Executives	84.4
3	55100	Secretaries	71.9
4	67005	Janitors and Cleaners	68.8
5	58028	Traffic, Shipping, and Receiving Clerks	59.4
	85132	Maintenance Repairers, General Utility	59.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		5,320	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	192	3.6				
Marketing, Advertising, And Public Relations Managers	13011	12	0.2	26	15	9	9.4
Industrial Production Managers	15014	35	0.7	28	45	25	12.5
General Managers And Top Executives	19005	112	2.1	11	124	100	84.4
All Other Managers And Administrators	19999	33	0.6	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	159	3.0				
Accountants & Auditors	21114	26	0.5	11	29	23	40.6
Purchasing Agents	21308	24	0.4	12	27	21	40.6
All Other Management Support Workers	21999	40	0.8	NA	-	-	NA
All other Engineers	22199	31	0.6	NA	-	-	NA
All other Engineering & Related Technicians & Technologists	22599	8	0.1	NA	-	-	NA
All Other Physical Scientists	24199	5	0.1	NA	-	-	NA
All Other Physical & Life Science Technicians & Technologists	24599	3	0.1	NA	-	-	NA
All Other Professional, Para-professional & Technical Workers	39999	22	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	193	3.6				
Other Sales Representatives	49008	150	2.8	25	188	112	46.9
All Other Sales & Related Workers	49999	43	0.8	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	437	8.2				
First Line, Supervisors And Manager/Supervisors	51002	22	0.4	0	22	22	9.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT' FIRMS REPORT
					HIGH	LOW	
Secretaries	55100	60	1.1	10	66	54	71.9
Bookkeeping, Accounting And Auditing Clerks	55338	35	0.7	16	41	29	53.1
Billing, Cost & Rate Clerks	55344	28	0.5	21	34	22	12.5
General Office Clerks	55347	59	1.1	23	72	46	46.9
All Other Office Machine Operators	56099	11	0.2	NA	-	-	NA
Production, Planning, & Expediting Clerks	58008	30	0.6	23	37	23	15.6
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	31	0.6	18	37	25	15.6
Traffic, Shipping, And Receiving Clerks	58028	54	1.0	10	60	48	59.4
All Other Material Recording, Scheduling & Dist. Workers	58099	7	0.1	NA	-	-	NA
All Other Clerical And Administrative Support Workers	59999	100	1.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	109	2.0				
Guards And Watch Guards	63047	43	0.8	8	46	40	18.8
Janitors And Cleaners	67005	55	1.0	6	58	52	68.8
All Other Cleaning & Bldg. Service Workers, Except Private Households	67099	5	0.1	NA	-	-	NA
All Other Service Workers	69999	6	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	40	0.8	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4,190	78.8				
First Line Supvrs. & Mgr./ Supvrs. Mechanics & Repairers	81002	31	0.6	9	34	28	9.4
First Line Supvrs. & Mgr/ Supvrs.-Production & Operating Workers	81008	309	5.8	3	319	299	87.5
Machinery Maintenance Mechanics, Water Or Power Generation Plant	85118	151	2.8	7	162	140	34.4

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Machinery Maintenance Mechanics	85119	81	1.5	NA	-	-	NA
Machinery Maintenance Workers	85128	40	0.8	21	48	32	9.4
Maintenance Repairers, General Utility	85132	156	2.9	16	180	132	59.4
All Other Mechanics, Installers, And Repairers	85999	63	1.2	NA	-	-	NA
Electricians	87202	40	0.8	0	40	40	9.4
All Other Construction Trades Workers	87899	87	1.6	NA	-	-	NA
All Other Precision Metal Workers	89199	30	0.6	NA	-	-	NA
All Other Precision Workers	89999	477	9.0	NA	-	-	NA
All Other Printing Related Setters And Set-Up Operators	92529	109	2.0	NA	-	-	NA
Printing Press Machine Operators	92543	73	1.4	11	81	65	28.1
All Other Printing, Binding & Related Machine Operators & Tenders	92549	13	0.2	NA	-	-	NA
Paper Goods Machine Setters & Set-Up Operators	92914	348	6.5	9	381	315	37.5
Cutting & Slicing Machine Operators & Tenders	92944	164	3.1	19	196	132	53.1
Coating, Painting, And Spraying Machine Operators & Tenders	92953	46	0.9	31	60	32	25.0
Cementing & Gluing Machine Operators & Tenders	92956	25	0.5	9	27	23	18.8
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	37	0.7	0	37	37	9.4
Packaging & Filling Machine Operators & Tenders	92974	57	1.1	10	63	51	12.5
All Other Machine Setters And Set-Up Operators	92997	100	1.9	NA	-	-	NA
All Other Machine Operators And Tenders	92998	479	9.0	NA	-	-	NA
Cutters & Trimmers, Hand	93926	26	0.5	14	30	22	9.4
All Other Hand Workers	93999	81	1.5	NA	-	-	NA
All Other Plant & System Operators	95099	68	1.3	NA	-	-	NA
Truck Drivers, Heavy Or Tractor Trailer	97102	62	1.2	3	64	60	34.4
Truck Drivers, Light-Include Delivery & Route Workers	97105	11	0.2	21	13	9	25.0

STAFFING PATTERNS

PAPER AND ALLIED PRODUCTS

(SIC 26)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Transportation And Related Workers	97899	26	0.5	NA	-	-	NA
Industrial Truck & Tractor Operators	97947	116	2.2	9	126	106	43.8
All other Material Moving Equipment Operators	97999	41	0.8	NA	-	-	NA
Machine Feeders & Offbearers	98502	225	4.2	30	293	157	43.8
Freight, Stock, & Material Movers, Hand	98700	96	1.8	9	104	88	46.9
Hand Packers And Packagers	98902	86	1.6	19	103	69	34.4
All Other Helpers, Laborers, And Material Movers, Hand	98999	436	8.1	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators, Except Machine, Electrical, Electronic and and Precision
Automotive Mechanics
Boilermakers
Boiler Operators, Low Pressure
Bus and Truck Mechanics and Diesel Engine Specialists
Carpenters
Chemical Engineers
Chemical Equipment Controllers and Operators
Chemical Plant and System Operators
Chemists
Cleaning, Washing, and Pickling Equipment Operators
Computer Operators
Computer Programmers
Computer Programmer Aides
Conveyor Operators and Tenders
Cost Estimators
Crane and Tower Operators
Cutting and Slicing Machine Setters and Set-Up Operators
Data Entry Keyers
Drafters
Electrical and Electronic Engineers
Electrical and Electronic Engineering Technicians and Technologists
Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators
Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
File Clerks
Financial Managers
First Line Supervisors and Manager/Supervisors-Construction Trades
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
First Line Supervisors and Manager/Supervisors-Transportation
Gardeners and Groundskeepers
Health Practitioners, Technologists, and Technicians
Hoist and Winch Operators
Industrial Engineers, Except Safety
Logging Tractor Operators
Machinists
Mechanical Engineers
Mechanic and Repairer Helpers
Millwrights
Order Clerks
Painters and Paperhangers
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training, and Labor Relations Managers
Personnel, Training and Labor Relations Specialists
Photoengraving, and Lithographing Photographers
Plumbers and Pipefitters
Power Distributors and Dispatchers
Precision Compositors, Typesetters, and Arrangers
Precision Instrument Repairers
Printing Press Machine Setters and Set-Up Operators
Procurement Clerks
Production Inspectors, Testers, Graders, Sorters and Weighers
Purchasing Managers
Rail Yard Engineers, Dinkey Operators and Hostlers
Railroad Brake, Signal, and Switch Operators
Receptionists and Information Clerks
Riggers
Sales Representatives, Scientific and Related Products and Services
Separating, Filtering, Clarifying, Precipitating, and Still Machine Operators and Tenders
Specialty Materials Printing Machine Setters and Set-Up Operators
Stationary Engineers
Stenographers
Switchboard Operators
Systems Analysts
Tool and Die Makers
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Typists
Water and Liquid Waste Treatment Plant Operators
Weighers, Measurers, Checkers and Samplers-Recordkeeping
Welders and Cutters

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
PRINTING, PUBLISHING AND ALLIED INDUSTRIES

(SIC 27)

This major group included establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books and periodicals, regardless of whether or not they do their own printing.

There were 6,812 wage and salary workers in the printing and publishing industries during the survey month of May 1983. This represents an increase of 569 workers or a 9 percent growth in employment from the same survey period three years earlier.

Our sample consisted of 102 units representing an employment of 5,580. Usable responses were received from 73 units or 72 percent of the units sampled. The reported employment was 4,212 or 75 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1983 ESTIMATED EMPLOYMENT
1	92543	Printing Press Machine Operators and Tenders	343
2	19005	General Managers and Top Executives	303
3	89708	Precision Lithography and Photo-engraving Workers	248
4	92512	Offset Lithographic Press Setters and Set-Up Operators	233
5	49008	Other Sales Representatives	227
6	55347	General Office Clerks	197
7	81008	First Line Supervisors and Manager/Supervisors–Production and Operating Workers	196
8	34002	Writers and Editors	190
9	55100	Secretaries	182
10	34011	Reporters and Correspondents	172

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	46.2
2	55100	Secretaries	31.8
	55338	Bookkeeping, Accounting and Auditing Clerks	31.8
4	81008	First Line Supervisors and Manager/Supervisors–Production and Operating Workers	29.5
5	55347	General Office Clerks	24.2

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		6,812	100.00				
MANAGERS AND ADMINISTRATORS	10000-19999	474	6.9				
Financial Managers	13002	18	0.3	18	21	15	6.1
Personnel, Training & Labor Relations Managers	13005	10	0.1	24	12	8	5.3
Marketing, Advertising, And Public Relations Managers	13011	49	0.7	16	24	8	7.6
Industrial Production Managers	15014	26	0.4	25	32	20	6.8
General Managers And Top Executives	19005	303	4.4	12	339	267	46.2
All Other Managers And Administrators	19999	68	1.0	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	665	9.8				
Accountants & Auditors	21114	42	0.6	28	54	30	6.1
All Other Financial Specialists	21199	4	0.1	NA	-	-	NA
Purchasing Agents	21308	10	0.1	30	13	7	6.1
Cost Estimators	21902	11	0.1	46	16	6	3.8
All Other Management Support Workers	21999	18	0.3	NA	-	-	NA
All Other Engineers	22199	24	0.4	NA	-	-	NA
All Other Engineering & Related Technicians & Technologists	22599	9	0.1	NA	-	-	NA
Computer Programmers	25105	52	0.8	25	65	39	6.8
Writers And Editors	34002	190	2.8	9	207	173	16.7
Reporters & Correspondents	34011	172	2.5	12	192	152	8.3
Photographers	34023	14	0.2	33	19	9	3.0
Artists and Related Workers	34035	10	0.1	40	14	6	2.8
Designers	34038	88	1.3	4	92	84	2.3
All Other Professional, Para-Professional & Technical Workers	39999	21	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	509	7.5				
First Line Supervisors and Manager/Supervisors-Sales	41002	52	0.7	48	77	27	3.8
Sales Agents, Advertising	43023	93	1.4	25	116	70	4.5

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Sales Representatives, Scientific And Related Products & Services	49005	64	0.9	32	84	44	7.6
Other Sales Representatives	49008	227	3.3	20	272	182	22.0
All Other Sales & Related Workers	49999	73	1.2	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,391	20.4				
First Line Supervisors And Manager/Supervisors	41002	22	0.3	13	25	19	5.3
Advertising Clerks	53908	33	0.5	47	48	18	2.3
Proofreaders & Copy Markers	53911	113	1.7	19	135	91	18.9
Secretaries	55100	182	2.7	13	205	159	31.8
Receptionists & Information Clerks	55305	11	0.2	30	14	8	5.3
Typists	55308	49	0.7	18	58	40	8.3
Typists, Word Processor	55311	32	0.5	42	45	19	6.1
Order Clerks	55323	27	0.4	11	30	24	3.8
Bookkeeping, Accounting And Auditing Clerks	55338	134	2.0	15	155	113	31.8
Payroll & Timekeeping Clerks	55341	10	0.1	30	13	7	5.3
Billing, Cost & Rate Clerks	55344	22	0.3	28	28	16	5.3
General Office Clerks	55347	197	2.9	12	220	174	24.2
Mail Machine Operators	56008	64	0.9	46	93	35	5.3
Computer Operators	56011	22	0.3	26	28	16	3.8
Data Entry Keyers	56017	36	0.5	9	39	33	6.8
Data Keyers, Composing	56021	132	1.9	20	158	106	10.6
All Other Office Machine Operators	56099	17	0.3	NA	-	-	NA
Switchboard Operators	57102	11	0.2	26	14	8	4.5
Mail Clerks, Except Mail Machine Operators & Postal Service	57302	58	0.8	14	66	52	9.1
Production, Planning, & Expediting Clerks	58008	42	0.6	24	52	32	6.1
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	22	0.3	24	27	17	6.8
Traffic, Shipping, & Receiving Clerks	58028	102	1.5	8	110	94	18.9
All Other Material Recording, Scheduling, & Distribution Workers	58099	4	0.1	NA	-	-	NA
All Other Clerical & Administrative Support Workers	59999	49	0.7	NA	-	-	NA

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
SERVICE OCCUPATIONS	60000-69999	81	1.2				
Janitors & Cleaners	67005	52	0.8	13	59	45	13.6
All Other Cleaning & Buildings Service Workers, Except Private Households	67099	12	0.2	NA	-	-	NA
All Other Service Workers	69999	17	0.2	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	3,690	54.2				
First Line Supervisors And Managers/Supervisors-Production & Operating Workers	81008	196	2.9	19	232	160	29.5
Maintenance Repairers, General Utility	85132	60	0.9	37	82	38	6.8
All Other Mechanics, Installers, And Repairers	85999	30	0.4	NA	-	-	NA
All Other Construction Trades Workers	87899	10	0.1	NA	-	-	NA
All other Precision Metal Workers	89199	18	0.3	NA	-	-	NA
Precision Compositors, Typesetters and Arrangers	89702	121	1.8	36	165	77	8.3
Precision Lithography And Photoengraving Workers	89708	248	3.6	13	281	215	15.9
Bookbinders	89711	32	0.5	42	45	19	3.8
All Other Precision Printing Workers	89799	162	2.3	NA	-	-	NA
All Other Precision Workers	89999	175	2.6	NA	-	-	NA
Offset Lithographic Press Setters & Set-Up Operators	92512	233	3.4	33	311	155	12.9
Letterpress Setters And Set-Up Operators	92515	80	1.2	32	106	54	6.1
Photoengraving & Lithographing Photographers	92521	63	0.9	22	77	46	12.1
All Other Printing Related Setters And Set-Up Operators	92529	107	1.6	NA	-	-	NA
Typesetting & Composing Machine Operators & Tenders	92541	149	2.2	26	188	110	21.9
Printing Press Machine Operators And Tenders	92543	343	5.0	33	456	230	12.1

STAFFING PATTERNS

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

(SIC 27)

OCCUPATIONAL TITLE	OES CODE	MAY 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Bindery Machine Operators	92546	156	2.3	18	185	127	9.1
All Other Printing, Binding, And Related Machine Operators And Tenders	92549	153	2.3	NA	-	-	NA
Paper Goods Machine Setters And Set-Up Operators	92914	19	0.3	21	23	15	2.3
All other Machine Setters And Set-Up Operators	92997	37	0.6	NA	-	-	NA
All Other Machine Operators And Tenders	92998	97	1.4	NA	-	-	NA
All Other Hand Workers	93999	488	7.2	NA	-	-	NA
All Other Motor Vehicle Operators	97199	36	0.5	NA	-	-	NA
All Other Transportation And Related Workers	97899	14	0.2	NA	-	-	NA
Industrial Truck and Tractor Operators	97947	26	0.4	50	39	13	2.3
Machine Feeders and Offbearers	98502	315	4.6	37	430	200	4.5
Freight, Stock, And Material Movers, Hand	98700	70	1.0	28	90	50	9.8
All Other Helpers, Laborers, And Material Movers, Hand	98999	252	3.7	NA	-	-	NA

* Less than 0.05 percent

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Billing, Posting, and Calculating Machine Operators
Bindery Machine Setters and Set-Up Operators
Bookbinders
Budget Analysts
Cashiers
Cement and Gluing Machine Operators and Tenders
Computer Programmer Aides
Cutting and Slicing Machine Operators and Tenders
Cutters and Trimmers, Hand
Drafters
Driver/Sales Workers
Duplicating Machine Operators
Electricians
File Clerks
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
First Line Supervisors and Manager/Supervisors-Service
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
Food and Beverage Preparation and Service Occupations
Gardeners and Groundskeepers
Guards and Watch Guards
Hand Packers and Packagers
Health Practitioners, Technologists, Technicians, and Related Occupations
Industrial Engineers, Except Safety
Industrial Engineering Technicians and Technologists
Interviewing Clerks, Except Personnel and Social Welfare
Job Printers
Librarians, Professional
Machinists
Machinery Maintenance Mechanics
Machine Feeder and Offbearers
Mechanic and Repairer Helpers
Mechanical Engineers
Messengers
News and Street Venders, Telephone Solicitors, Door-to-Door Sales Workers and Other Related Workers
Packaging and Filling Machine Operators and Tenders
Painters and Paperhangers
Personnel Clerks
Personnel, Training, and Labor Relations Specialists
Peripheral EDP Equipment Operators
Photoengraving and Lithographing Machine Operators and Tenders
Plumbers and Pipefitters
Precision Detail Design Decorators and Painters
Precision Photographic Process Workers
Procurement Clerks
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
Public Relations Specialists and Publicity Writers
Purchasing Managers
Screen Printing Machine Setters and Set-Up Operators
Specialty Materials Printing Machine Setters and Set-Up Operators
Systems Analysts
Technical Writers
Truck Drivers, Heavy
Truck Drivers, Light
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries.

During the survey month of June 1983 there were 1,279 wage and salary workers employed in this industry. Compared to a similar survey which was conducted in 1980, this represents a gain of 102 jobs or 9 percent.

Our sample consisted of 15 units representing an employment of 1,277. Usable responses were received from 11 units or 73 percent of the units sampled. The reported employment was 1,182 or 93 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1983 ESTIMATED EMPLOYMENT
1	83005	Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	210
2	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	121
3	92944	Cutting and Slicing Machine Operators and Tenders	88
4	93926	Cutters and Trimmers, Hand	78
5	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	69
6	92923	Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders	59
7	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	35
8	89108	Machinists	22
9	85110	Machinery Maintenance Mechanics	21
10	19005	General Managers and Top Executives	20

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	81008	First Line Supervisors and Manager/Supervisors-Production and Operating Workers	72.7
2	19005	General Managers and Top Executives	63.6
3	55100	Secretaries	54.5
	67005	Janitors and Cleaners	54.5
	89108	Machinists	54.5

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		1,279	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	41	3.2				
General Managers And Top Executives	19005	20	1.6	14	24	16	63.6
All Other Managers And Administrators	19999	21	1.6	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	39	3.0				
All Other Financial Specialists	21199	6	0.5	NA	-	-	NA
All Other Management Support Workers	21999	5	0.4	NA	-	-	NA
All Other Engineers	22199	11	0.8	NA	-	-	NA
All Other Engineering And Related Technicians And Technologists	22599	3	0.2	NA	-	-	NA
All Other Physical Scientists	24199	2	0.1	NA	-	-	NA
All Other Physical And Life Science Technicians And Technologists	24599	6	0.5	NA	-	-	NA
All Other Professional, Paraprofessional, And Technical Workers	39999	6	0.5	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	12	0.9	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	73	5.7				
Secretaries	55100	11	0.9	16	13	9	54.5
All Other Office Machine Operators	56099	4	0.3	NA	-	-	NA
Production, Planning, And Expediting Clerks	58008	10	0.8	3	10	10	36.4
All Other Material Recording, Scheduling, And Distribution Workers	58099	15	1.1	NA	-	-	NA

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Clerical And Administrative Support Workers	59999	33	2.6	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	16	1.3				
Janitors And Cleaners	67005	13	1.0	6	14	12	54.5
All Other Cleaning And Building Service Workers, Except Private Households	67099	3	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	1	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,097	85.8				
First Line Supervisors And Manager/Supervisors-Production And Operating Workers	81008	69	5.4	21	83	55	72.7
Production Inspectors, Testers Graders, Sorters, Samplers, And Weighers	83005	210	16.4	7	224	196	45.5
Machinery Maintenance Mechanics	85110	21	1.6	16	24	18	36.4
Maintenance Repairers, General Utility	85132	18	1.4	13	20	16	36.4
All Other Mechanics, Installers And Repairers	85999	6	0.5	NA	-	-	NA
All other Construction Trades Workers	87899	15	1.2	NA	-	-	NA
Machinists	89108	22	1.7	5	23	21	54.5
All Other Precision Metal Workers	89199	19	1.5	NA	-	-	NA
All Other Metal And Plastic Machine Setters And Set-Up Operators	92197	9	0.7	NA	-	-	NA
All other Metal And Plastic Machine Operators And Tenders	92198	24	1.9	NA	-	-	NA
All Other Printing, Binding, and Related Operators And Tenders	92549	15	1.2	NA	-	-	NA
Furnace, Kiln, Oven, Drier, Or Kettle Operators And Tenders	92923	59	4.6	0	59	59	27.3

STAFFING PATTERNS

FABRICATED RUBBER PRODUCTS NOT ELSEWHERE CLASSIFIED

(SIC 306)

OCCUPATIONAL TITLE	OES CODE	JUNE 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Cutting and Slicing Machine Operators And Tenders	92944	88	6.9	19	105	71	27.3
Crushing, Grinding, Mixing, And Blending Machine Operators And Tenders	92965	35	2.7	26	44	26	36.4
Extruding, Forming, Pressing, And Compacting Machine Operators And Tenders	92971	121	9.5	8	131	111	36.4
All Other Machine Setters And Set-Up Operators	92997	13	1.0	NA	-	-	NA
All Other Machine Operators And Tenders	92998	80	6.3	NA	-	-	NA
Cutters And Trimmers, Hand	93926	78	6.1	1	136	134	36.4
All Other Hand Workers	93999	135	10.6	NA	-	-	NA
All Other Motor Vehicle Operators	97199	8	0.6	NA	-	-	NA
Industrial Truck And Tractor Operators	97947	10	0.8	8	11	9	27.3
Freight, Stock, And Material Movers, Hand	98700	11	0.8	8	12	10	27.3
All Other helpers, Laborers, And Material Movers, Hand	98999	31	2.4	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 50 percent or disclosure of confidential employer information. They were however included in the appropriate "all" or "all other" category.

Accountants and Auditors
Assemblers, and Fabricators, Except Machine, Electrical Electronic & Precision
Automotive Mechanics
Billing, Cost and Rate Clerks
Boiler Operators, Low Pressure
Bookkeeping, Accounting and Auditing Clerks
Bus and Truck Mechanics and Diesel Engine Specialists
Carpenters
Chemical Equipment Tenders
Chemical Engineers
Chemical Engineering Technicians and Technologists
Chemists
Computer Operators
Computer Programmers
Computer Programmer Aides
Cost Estimators
Cutting and Slicing Machine Setters and Set-up Operators
Data Entry Keyers
Drafters
Electricians
Extruding, Forming, Pressing and Compacting Machine Setters and Set-up Operators
File Clerks
Financial Managers
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations
General Office Clerks
Hand Packers and Packagers
Industrial Engineers, Except Safety
Industrial Production Managers
Machine Feeder and Offbearers
Machinery Maintenance Workers
Marketing, Advertising and Public Relations Managers
Mechanical Engineers
Molders and Casters, Hand
Numerical Machine Tool Operators
Order Clerks
Other Sales Representatives
Packaging and Filling Machine Tenders
Painting, Coating, and Decorating Workers, Hand
Payroll and Timekeeping Clerks
Personnel Clerks
Personnel, Training and Labor Relations Managers
Personnel, Training and Labor Relations Specialists

Plastic Molding and Casting Machine Operators and Tenders
Plumbers and Pipefitters
Precision Inspectors, Testers and Graders
Printing Press Machine Operators
Purchasing Agents
Purchasing Managers
Receptionists and Information Clerks
Safety Engineers, Except Mining
Stock Clerks - Stockroom, Warehouse or Storage Yard
Switchboard Operators
Tire Building Machine Operators
Tool and Die Makers
Tool Grinders, Filers Sharpeners and other Precision Grinders
Traffic, Shipping and Receiving Clerks
Truck Drivers, Heavy
Truck Drivers, Light
Typists
Weighers, Measurers, Checkers and Samplers - Recordkeeping

OCCUPATIONAL EMPLOYMENT
NONDURABLE GOODS MANUFACTURING
LEATHER AND LEATHER PRODUCTS

(SIC 31)

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather converters are also included.

There were 8,802 wage and salary workers employed in the leather and leather products industries during the survey month of April 1983. This represents an 8 percent decrease in employment (741 workers) from a similar occupational survey three years earlier.

Our sample consisted of 61 units representing an employment of 8,757. Usable responses were received from 42 units or 69 percent of the units sampled. The reported employment was 6,092 or 70 percent of the employment in the sample.

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1983 ESTIMATED EMPLOYMENT
1	92723	Shoe Sewing Machine Operators and Tenders	1,608
2	92956	Cementing and Gluing Machine Operators and Tenders	659
3	98902	Hand Packers and Packagers	365
4	89511	Shoe and Leather Workers and Repairers-Precision	338
5	93926	Cutters and Trimmers, Hand	290
6	98502	Machine Feeders and Offbearers	163
7	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	144
8	55347	General Office Clerks	135
9	19005	General Manager and Top Executives	125
10	98700	Freight, Stock and Material Movers, Hand	112

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS REPORTING
1	19005	General Managers and Top Executives	83.3
2	58028	Traffic, Shipping, and Receiving Clerks	57.1
	81008	First Line Supervisors and Manager/ Supervisors-Production and Operating Workers	57.1
4	55100	Secretaries	52.4
	92723	Shoe Sewing Machine Operators and Tenders	52.4

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
TOTAL ALL OCCUPATIONS		8,802	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	256	2.9				
Financial Managers	13002	35	0.4	16	41	29	31.0
Personnel, Training & Labor Relations Managers	13005	14	0.2	15	16	12	26.2
Purchasing Managers	13008	11	0.1	20	13	9	21.4
Marketing, Advertising, and Public Relations Managers	13011	19	0.2	27	24	14	26.2
Industrial Production Managers	15014	13	0.1	25	16	10	23.8
General Managers And Top Executives	19005	125	1.4	10	137	113	83.3
All Other Managers And Administrators	19999	39	0.5	NA	-	-	NA
PROFESSIONAL, PARAPROFESSIONAL & TECHNICAL OCCUPATIONS	20000-39999	226	2.6				
Accountants & Auditors	21114	13	0.1	30	17	9	16.7
All Other Financial Specialists	21199	4	0.1	NA	-	-	NA
Purchasing Agents	21308	19	0.2	12	21	17	33.3
Cost Estimators	21902	12	0.1	32	16	8	16.7
All Other Management Support Workers	21999	23	0.3	NA	-	-	NA
Industrial Engineers, Except Safety	22128	20	0.2	28	26	14	16.7
All Other Engineers	22199	17	0.2	NA	-	-	NA
All Other Engineering & Related Technicians & Technologists	22599	25	0.3	NA	-	-	NA

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
All Other Physical Scientists	24199	4	0.1	NA	-	-	NA
All Other Physical And Life Science Technicians And Technologists	24599	1	*	NA	-	-	NA
Computer Programmers	25105	24	0.3	30	-	-	19.0
Computer Programmer Aides	25108	20	0.2	23	25	15	19.0
All Other Professional, Paraprofessional And Technical Workers	39999	44	0.5	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	90	1.0				
First Line Supervisors and Manager/Supervisors	41002	20	0.2	22	24	16	21.4
Other SAles Representatives	49008	24	0.3	20	29	19	21.4
All Other Sales and Related Workers	49999	46	0.5	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,000	11.4				
First Line Supervisors And Manager/Supervisors	51002	61	0.7	23	75	47	33.3
Secretaries	55100	75	0.9	16	87	63	52.4
Receptionists and Information Clerks	55305	14	0.2	25	17	11	26.2
Typists	55308	30	0.3	26	38	22	14.3
Personnel Clerks	55314	12	0.1	28	15	9	16.7
Procurement Clerks	55326	17	0.2	27	22	12	14.3
Bookkeeping, Accounting, And Auditing Clerks	55338	56	0.6	10	62	50	47.6
Payroll and Timekeeping Clerks	55341	54	0.6	7	58	50	42.9
General Office Clerks	55347	135	1.5	28	173	97	42.9
All Other Office Machine Operators	56099	42	0.5	NA	-	-	NA
Switchboard Operators	57102	19	0.2	14	22	16	31.0
Production, Planning, And Expediting Clerks	58008	30	0.3	16	35	25	31.0
Stock Clerks-Stockroom, Warehouse Or Storage Yard	58023	94	1.1	17	110	78	23.8

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Traffic, Shipping, And Receiving Clerks	58028	96	1.1	27	122	70	57.1
All Other Material Recording, Scheduling & Dist. Workers	58099	103	1.2	NA	-	-	NA
All Other Clerical And Administrative Support Wkrs.	59999	162	1.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	115	1.3				
First Line Supervisors And Manager/Supervisors	61000	40	0.5	33	53	27	14.3
Janitors And Cleaners	67005	40	0.5	9	44	36	45.2
All Other Cleaners And Bldg. Service Workers	67099	29	0.3	NA	-	-	NA
All Other Service Workers	69999	6	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY FISHING AND RELATED WORKERS	70000-79999	1	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	7,114	80.8				
First Line Supvrs. And Mgr/Supvrs. - Production & Operating Workers	81008	144	1.6	12	161	127	57.1
Production Inspectors, Testers, Graders, Sorters, Samplers, & Weighers	83005	70	0.8	18	83	57	31.0
Maintenance Mechanics, Sewing Machine	85113	17	0.2	22	21	13	19.0
All Other Machinery Maintenance Mechanics	85119	15	0.2	NA	-	-	NA
Maintenance Repairers, General Utility	85132	84	1.0	11	93	75	47.6

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT FIRMS REPORT
					HIGH	LOW	
All Other Mechanics, Installers, And Repairers	85999	16	0.2	NA	-	-	NA
All Other Const. Trades Workers	87899	10	0.1	NA	-	-	NA
Machinists	89108	18	0.2	26	13	23	11.9
All Other Precision Metal Workers	89199	4	*	NA	-	-	NA
Fabric & Apparel Patternmakers, And Layout Workers	89502	18	0.2	31	24	12	14.3
Shoe & Leather Workers & Repairers-Precision	89511	338	3.8	21	408	268	31.0
All Other Precision Textile, Apparel, & Furnishings Workers	89599	22	0.3	NA	-	-	NA
All Other Precision Workers	89999	38	0.4	NA	-	-	NA
All Other Metal & Plastic Machine Operators & Tenders	92198	64	0.7	NA	-	-	NA
Sewing Machine Operators, Non-Garment	92721	26	0.3	10	29	23	7.1
Shoe Sewing Machine Operators And Tenders	92723	1,608	18.3	12	1,800	1,416	52.4
Cutting & Slicing Machine Operators And Tenders	92944	22	0.3	10	24	20	11.9
Coating, Painting, & Spraying Machine Operators And Tenders	92953	30	0.3	28	38	22	11.9
Cementing & Gluing Machine Operators And Tenders	92956	659	7.5	33	874	444	40.5
All Other Machine Setters & Set-Up Operators	92997	179	2.0	NA	-	-	NA
All Other Machine Operators And Tenders	92998	213	2.4	NA	-	-	NA
Cutters And Trimmers, Hand	93926	290	3.3	23	356	224	31.0
All Other Hand Workers	93999	1,733	19.7	NA	-	-	NA
All Other Plant And System Operators	95099	3	*	NA	-	-	NA
Truck Drivers, Light-Include Delivery & Route Workers	97105	19	0.2	18	22	16	21.4
All Other Transportation And Related Workers	97899	24	0.3	NA	-	-	NA

STAFFING PATTERNS

LEATHER AND LEATHER PRODUCTS

(SIC 31)

OCCUPATIONAL TITLE	OES CODE	APRIL 1983 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT FIRMS REPORT
Conveyor Operators & Tenders	97951	15	0.2	26	19	11	11.9
All Other Material Moving Equipment Operators	97999	27	0.3	NA	-	-	NA
Mechanic & Repairer Helpers	98102	10	0.1	30	13	7	9.5
Machine Feeders & OffBearers	98502	163	1.9	18	192	134	16.7
Freight, Stock, & Material Movers, Hand	98700	112	1.3	25	140	84	31.0
Hand Packers And Packagers	98902	365	4.1	18	432	298	28.6
All Other Helpers, Laborers & Material Movers, Hand	98999	758	8.6	NA	-	-	NA

Estimates covering the following occupations were not shown separately because of fewer than ten (10) employees, a relative error greater than 35 percent or disclosure of confidential employer information. They were however included in the appropriate "All" or "All Other" category.

Administrative Services Managers
Assemblers and Fabricators, Except Machine, Electrical, Electronic and Precision
Automotive Mechanics
Billing, Cost and Rate Clerks
Billing, Posting, and Calculating Machine Operators
Boiler Operators, Low Pressure
Budget Analysts
Chemical Engineers
Chemical Engineering Technicians and Technologists
Chemists
Cleaning, Washing and Pickling Operators and Tenders
Coating, Painting and Spraying Machine Settersand Set-Up Operators
Computer Operators
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
Custom Tailors and Sewers
Cutting and Slicing Machine Setters and Set-Up Operators
Cutters and Trimmers, Hand
Data Entry Keyers
Demonstrators, Promoters, and Models
Designers
Drafters
Electricians
Elevator Operators
Extruding, Forming, Pressing and Compacting Machine Operators and Tenders
File Clerks
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers
First Line Supervisors and Manager/Supervisors-Transportation
Gardeners and Groundskeepers
Guards and Watch Guards
Health Practitioners, Technicians and Technologists
Heat, Air Conditioning, and Refrigeration Mechanics
Industrial Engineering Technicians and Technologists
Industrial Truck and Tractor Operators
Machinery Maintenance Workers
Maintenance Mechanics, Textile Machines
Mechanical Engineers
Mechanical Engineering Technicians and Technologists
Millwrights
Order Clerks
Packaging and Filling Machine Operators
Painting, Coating, and Decorating Workers, Hand
Peripheral EDP Equipment Operators
Personnel, Training, and Labor Relations Specialists
Plastic Molding and Casting Machine Setters and Set-Up Operators
Plastic Molding and Casting Machine Operators
Plumbers and Pipefitters
Portable Machine Cutters
Precision Inspectors, Testers and Graders
Precision Woodworkers
Pressing Machine Operators
Pressers, Hand
Programmers-Numerical,Tool,Process Control and Safety Engineers, Except Mining
Sales Representatives, Scientific and Related Products and Services
Sewers, Hand
Statistical Clerks
Stenographers
Systems Analysts
Teachers and Instructors, Vocational Education and Training
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
Truck Drivers, Heavy or Tractor Trailer
Typists, Word Processor
Water and Liquid Waste Treatment Plant and System Operators
Weighers, Measurers, Checkers, and Samplers-Recordkeeping

APPENDIX

The new OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, governmental or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39000 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathmeticians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49000 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers. Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc.); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. Production, Construction, Operating, Maintenance and Material Handling Occupations

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

Explanation of Footnotes:

1/ Employment estimate represents covered employment adjusted for additional current information. Data entries were not rounded in order to preserve their analytic value. However, they should not be construed as being absolute but rather as relative values.

2/ Relative errors apply equally to estimated employment and the present distribution. Please refer to technical notes for an explanation of relative error.

N.A. Not applicable

METHODOLOGY

A. Sample and Survey Response

The second quarter of the 1982 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The manufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1983 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 887 establishments or 73 percent of the 1,139 units surveyed. Employment reported by these units accounted for 77 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and one followup. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4 - 9 would be in one size class and those with employment of 10 - 19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of ½ which is two, for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1983 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by

establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, leather and leather products (SIC 31) lists an estimated total of 338 Shoe and Leather Workers & Repairers with a relative error of 21 percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of Shoe and Leather Workers & Repairers would not differ from the estimate by more than 70 or an estimated high of 408 or low of 268. Any specific occupation with ten or more employees and a relative error of 50 percent or less was published separately in this report except in industries 31, 25, 26, and 36, where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

Publishing Criteria

The criteria used for publishing occupational estimates were as follows:

1) A response rate of at least 70 percent of the benchmark employment.
2) Industry employment of 1,000 or more.
3) A maximum relative error of 50 percent for firms with a least a 75 percent response for employment.
4) A maximum relative error of 35 percent for firms with a response rate less than 75 percent but greater than or equal to 70 percent.
5) Three or more employers reporting an occupation.
6) No one firm reporting 50 percent of the occupational estimate or two firms combined reporting 75 percent of the occupational estimate.
7) A minimum occupational employment of 10.

Estimates for an occupation which did not meet publication criteria were added to the appropriate residual category and listed at the end of each occupational estimate table.

Manufacturing Survey Design

All Manufacturing industries (SIC's 20-39) were surveyed. A sample of approximately 1,139 firms were surveyed, representing 96 percent of the manufacturing industries' employment.

AVAILABLE OCCUPATIONAL PROFILES
AS OF APRIL 1985

INDUSTRY	SURVEY YEAR	DATE PUBLISHED
WHOLESALE AND RETAIL TRADE	1982	October 1983
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1982	October 1983
FEDERAL, STATE AND LOCAL GOVERNMENT	1982	October 1983
MANUFACTURING	1980	August 1981
HOSPITALS	1980	March 1981
CONTRACT CONSTRUCTION, FINANCE, INSURANCE AND REAL ESTATE, SERVICES	1981	NONE
WHOLESALE AND RETAIL TRADE	1979	December 1980
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1979	December 1980
FEDERAL, STATE AND LOCAL GOVERNMENT	1979	November 1980
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1978	November 1980
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1978	November 1979
MANUFACTURING	1983	March 1985
HOSPITALS	1983	March 1985

FUTURE PUBLICATIONS	SURVEY YEAR
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1984
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1985
FEDERAL, STATE AND LOCAL GOVERNMENT	1985
WHOLESALE AND RETAIL TRADE	1985
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1985

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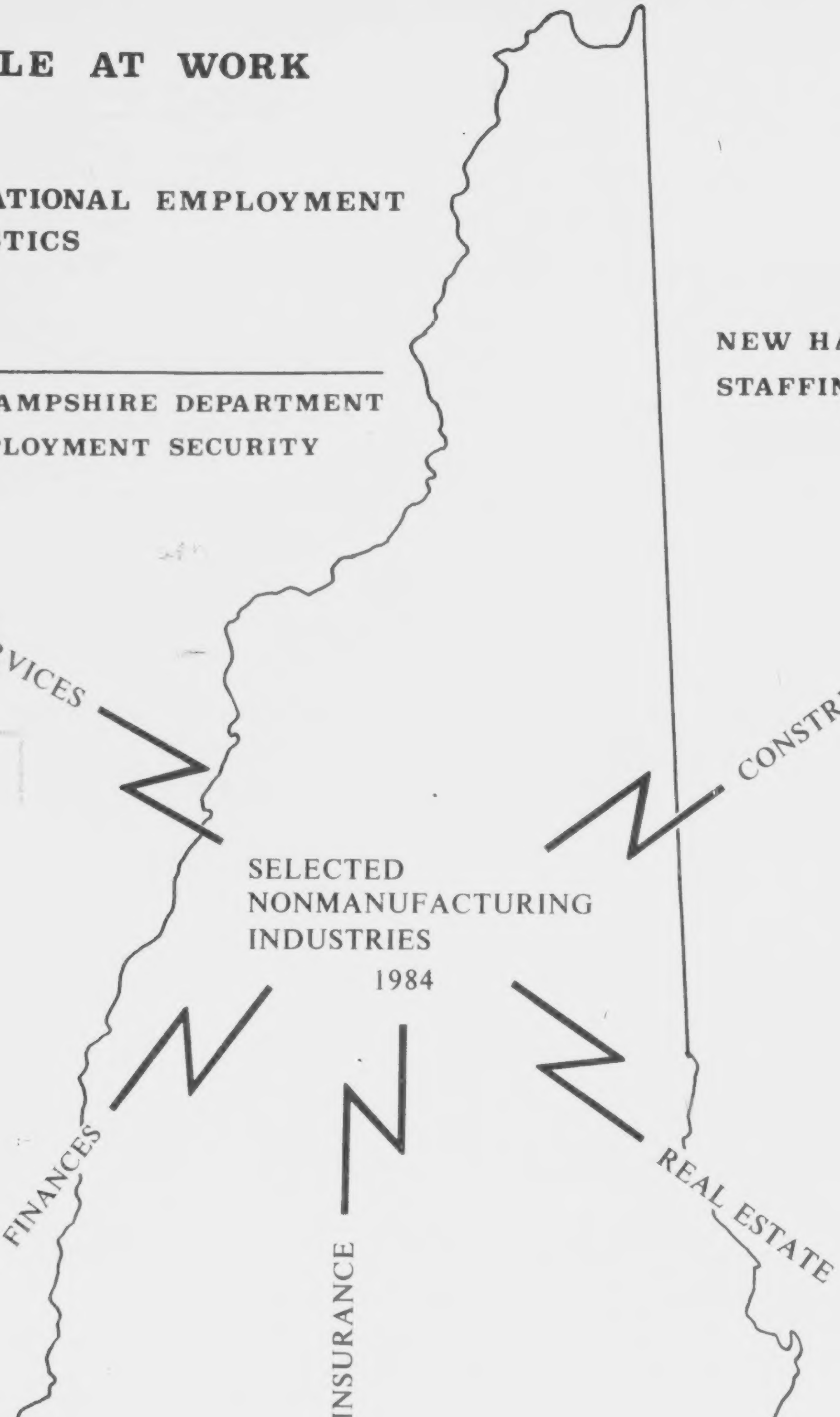
PEOPLE AT WORK

OCCUPATIONAL EMPLOYMENT STATISTICS

NEW HAMPSHIRE DEPARTMENT
OF EMPLOYMENT SECURITY

NEW HAMPSHIRE STAFFING PATTERNS


SERVICES
CONSTRUCTION
FINANCES
INSURANCE
REAL ESTATE

SELECTED
NONMANUFACTURING
INDUSTRIES
1984

NEW HAMPSHIRE STAFFING PATTERNS

IN SELECTED NONMANUFACTURING

INDUSTRIES

1984

An Occupational Employment Statistics Survey

Conducted By The

Economic Analysis and Reports Section

NEW HAMPSHIRE DEPARTMENT OF EMPLOYMENT SECURITY

In Cooperation With The

U. S. BUREAU OF LABOR STATISTICS

Published February 1986

Wesley S. Noyes, Jr., Supervisor

William Halm, Labor Market Analyst II

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PREFACE

Our sincere appreciation is extended to those employers who participated in this survey. Without their support, this publication would not have been possible.

We also would like to express our thanks to the United States Department of Labor, both at the regional level in Boston, MA and the national level in Washington, D. C. for their help in the Federal-State Cooperative effort.

This report was prepared by the New Hampshire Occupational Employment Statistics (OES) Program staff William Halm, and other Research staff including; Tracey Petrozzi and Madaline Shanelaris with programming and data processing support provided by Charles Marshall and Richard Ricard.

Your comments and suggestions as well as requests for more information are most welcome. We may be reached at the following address:

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Occupational Employment Statistics Unit
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Concord, N.H. 03301

Phone (603) 224-3311, Extension 256

INTRODUCTION

The United States Department of Labor initiated the OES program in mid 1971 to meet the increasing demand for current occupational data. The program consists of three distinct segments: The survey; the industry-occupational matrix and the industry employment projections. This publication only presents the survey phase of the program.

The OES survey is a periodic mail survey of a sample of establishments selected from the ES-202. The survey is conducted over a three year cycle. Manufacturing and Hospitals are surveyed in the first year; one half the nonmanufacturing industries in the second year; and the remainder of nonmanufacturing industries in the third year. Data are collected from employing establishments primarily by mail with telephone followups and personal visits when an establishment's response is critical to the survey. The OES survey is based on a random sample, stratified by industry and size, and designed to represent the total or "universe" of establishments covered in the survey. These data are then used to estimate total nonfarm wage and salary employment by occupation and industry for the state and selected substate areas.

The industry-occupational matrix is a chart, or array which is divided into columns and rows. The columns represent divisions of industry, such as manufacturing, finance, insurance and real estate (FIRE), wholesale trade and services. The rows represent large occupational groupings, including professional, paraprofessional and technical workers, clerical workers and sales workers. Each column and row is subdivided to provide a more detailed matrix of industries and occupations. For example, in the banking industry, tellers are listed in the clerical group, and computer programmers are listed in the professional, paraprofessional and technical group. Also the banking industry is part of the finance, insurance and real estate division.

The industry employment projections by occupation are based on knowing the staffing pattern or occupational makeup of the industry (as determined by the OES survey) and the industry employment for the target year. The industry employment is projected to the target year using a statistical technique called "regression analysis." The projected occupational employment is obtained by applying the adjusted staffing pattern ratios.

Between June 1984 and July 1985, the New Hampshire Department of Employment Security conducted an occupational employment survey of selected nonmanufacturing industries by means of a questionnaire. This report was compiled from usable returns from the original mailing plus two follow-ups.

As used in this report, Standard Industrial Classification (SIC) defines industries according to composition and structure and spans the entire field of economic activities. Industrially classified statistics are used not only to show how industries have performed over past years but to indicate emerging and rapidly growing industries.

No comparison between 1984 occupational estimates and the data from previous OES surveys was possible due to changes in the occupational coding system, and no survey of selected nonmanufacturing industries was conducted in 1981.

The goal of the OES program is to direct training programs to meet both current and long-range personnel needs. To that end, it is an invaluable tool enabling employers, educational planners, manpower analysts, economists and other users to intelligently deal with inequities in the supply and demand of workers in specific occupations on the local, state or national level. Some industries could not be published since they did not meet the publishing criteria. (See appendix)

SUMMARY

OCCUPATIONAL EMPLOYMENT IN SELECTED NONMANUFACTURING INDUSTRIES

The survey of selected nonmanufacturing industries includes firms within mining and construction, finance, insurance, real estate and services. It does not include hospitals, educational institutions, regulated industries, wholesale and retail trade or government. Construction covers new work,

additions, alterations and repairs. The three broad types of construction activity are: building, other than building and special trades. Finance, insurance and real estate includes banks and trust companies; credit agencies other than banks and security and commodity brokers; carriers of all types of insurance and insurance agents; and real estate operators, owners and lessors. Service industries include firms that provide services for individuals, businesses and government establishments.

During the occupational survey period of the second quarter of 1984 there were 105,265 wage and salary workers employed in the selected nonmanufacturing industries in New Hampshire. Mining and contract construction accounted for 22.2 percent of the total employment, finance, insurance and real estate 21.5 percent and services 56.3 percent. Within mining and construction, special trade contractors cover a wide variety of skills and comprise slightly less than half the 23,412 workers in this division.

Over eighty percent of the employment in the finance, insurance and real estate division is about equally divided between finance and insurance while the health services dominates the service industry with 23.3 percent of the employment followed by business services with 21.3 percent.

The distribution of selected nonmanufacturing workers among major occupational groups shows that the largest percentage, 26.0 percent is concentrated in the clerical occupations group. Within this group, bookkeeping, accounting and auditing clerks, general office clerks, tellers, secretaries, legal secretaries, insurance policy processing clerks and receptionists and information clerks accounted for 50 percent of the workers. Production workers was the next largest group with 24.4 percent. Within this group, carpenters, carpenters helpers, plumbers and maintenance repairers, general utility accounted for almost 29.0 percent of the workers.

Data for Mining and Quarrying of Nonmetallic Minerals, except Fuels (SIC 14) Security and Commodity Brokers, Dealers, Exchanges and Services (SIC 62), Combinations of Real Estate, Insurance Loans, Law Offices (SIC 66), Holding and other Investment Offices (SIC 67), Miscellaneous Repair Services (SIC 76), Motion Pictures (SIC 78), Museums, Art Galleries, Botanical and Zoological Gardens (SIC 84), were not published since they did not meet the criteria for publication (see appendix)

Our sample consisted of 2,502 units representing an employment of 66,368. Usable responses were received from 1,875 units or 75 percent of the units sampled. The reported employment was 50,530 or 76 percent of the employment in the sample.

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59000	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
14-17, 60-89	TOTAL	105,265	6.5	19.7	4.7	26.0	17.7	1.0	24.4
14-17	MINING AND CONTRACT CONSTRUCTION	23,412	6.6	4.3	1.7	9.4	0.7	0.3	77.0
15	BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS	7,057	10.4	5.6	0.6	9.0	1.0	0.5	72.9
152	General Building Contractors-Residential Buildings	5,228	10.7	4.7	0.8	9.7	1.2	0.3	72.6
154	General Building Contractors-Nonresidential Buildings	1,743	9.3	8.5	0.2	7.2	0.5	0.5	73.8
16	CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION-GENERAL CONTRACTORS	4,639	3.3	4.0	0.7	6.3	1.0	0.6	84.1
161	Highways and Street Construction, Except Elevated Highways	1,633	3.9	2.8	1.1	7.3	2.9	1.7	80.3
162	Heavy Construction, Except Highway and Street Construction	3,006	2.9	4.8	0.4	5.7	0.1	*	86.1
17	CONSTRUCTION-SPECIAL TRADE CONTRACTORS	11,301	5.7	3.6	2.5	10.8	0.5	*	76.9
171	Plumbing, Heating (Except Electric), and Air Conditioning	2,006	5.3	5.4	2.1	12.8	0.6	*	73.8
173	Electrical Work	1,775	5.8	4.2	3.1	11.1	0.1	*	75.7
174	Masonry, Stonework, Tile Setting, and Plastering	1,648	4.0	3.8	0.3	7.1	*	*	84.8
179	Miscellaneous Special Trade Contractors	3,092	7.5	3.1	2.4	11.3	0.7	0.1	74.9
60-67	FINANCE, INSURANCE AND REAL ESTATE	22,630	8.8	14.8	11.0	57.2	3.4	1.3	3.5
60	BANKING	6,986	10.7	9.2	1.3	75.8	2.9	*	0.1
602	Commercial and Stock Savings Banks	4,828	10.1	8.6	1.0	77.3	2.9	*	0.1
603	Mutual Savings Banks	2,158	12.1	10.5	1.7	72.4	3.1	0.1	0.1

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

SIC CODE	INDUSTRY	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59000	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-89999
61	CREDIT AGENCIES OTHER THAN BANKS	1,820	14.0	12.1	5.2	66.6	1.7	*	0.4
63	INSURANCE	7,310	7.0	27.3	7.9	55.0	1.7	*	1.1
631	Life Insurance	1,411	5.7	14.2	28.2	51.3	*	0.1	0.5
632	Accident And Health Insurance And Medical Service Plans	1,009	9.4	40.8	11.3	34.5	3.6	*	0.4
633	Fire, Marine And Casualty Insurance	4,863	6.8	28.4	1.3	60.3	1.7	*	1.5
64	INSUFANCE AGENTS, BROKERS, AND SERVICE	2,314	5.1	10.8	29.6	53.2	1.1	*	0.2
65	REAL ESTATE	3,181	7.6	2.8	23.6	23.9	12.0	8.3	21.8
653	Real Estate Agents and Managers	1,894	5.6	1.3	34.8	26.2	11.0	4.3	16.8
70-89	SERVICES (SIC 806 AND 82 EXCLUDED)	59,223	5.5	27.8	3.6	20.7	29.8	1.0	11.6
70	HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES	6,602	5.9	2.1	3.4	11.7	68.3	3.2	5.4
701	Hotels, Motels and Tourist Courts	6,234	6.0	1.5	3.5	11.2	70.7	1.6	5.5
72	PERSONAL SERVICES	4,287	3.3	13.7	9.5	12.2	36.4	*	24.9
721	Laundry, Cleaning, and Garment Services	1,725	4.3	0.6	18.7	7.0	9.1	0.1	60.2
723	Beauty Shops	1,359	2.7	3.9	0.1	4.6	88.7	*	*
73	BUSINESS SERVICES	12,636	7.0	24.2	4.5	25.2	24.0	0.2	14.9
734	Services to Dwellings and Other Buildings	2,229	2.4	0.1	2.4	4.3	85.4	0.9	4.5
736	Personnel Supply Services	3,051	1.4	38.4	2.7	31.4	8.5	0.1	17.5
737	Computer and Data Processing Services	2,009	12.4	41.0	8.0	34.1	*	*	4.5
739	Miscellaneous Business Services	4,264	10.7	20.7	4.3	22.4	20.5	0.1	21.3
75	AUTOMOTIVE REPAIR, SERVICES, AND GARAGES	2,584	3.7	1.1	9.9	13.9	1.4	*	70.0

STAFFING PATTERNS - SELECTED NONMANUFACTURING INDUSTRIES
BY MAJOR OCCUPATION GROUP

CODE	INDUSTRY	SECOND QTR. 1984 ESTIMATED EMPLOYMENT	PERCENT						
			MANAGERIAL 10000-19999	PROFESSIONAL AND TECHNICAL 20000-39000	SALES 40000-49000	CLERICAL 50000-59000	SERVICE 60000-69999	AGRICULTURAL 70000-79999	PRODUCTION 80000-98999
753	Automotive Repair Shops	1,889	2.4	1.2	6.7	12.2	1.2	*	76.3
79	AMUSEMENT AND RECREATION SERVICES, EXCEPT MOTION PICTURES	3,419	5.6	17.9	9.6	9.0	43.9	7.4	6.6
799	Miscellaneous Amusement and Recreation Services	2,210	6.5	15.8	8.7	8.1	44.3	10.9	5.7
80	HEALTH SERVICES	13,789	4.1	39.5	0.4	22.2	30.9	0.1	2.8
801	Offices of Physicians	3,649	2.6	50.5	0.8	40.2	5.5	0.1	0.3
802	Offices of Dentists	1,921	1.7	40.8	*	24.9	31.5	0.1	1.0
805	Nursing and Personal Care Facilities	4,551	3.7	22.5	*	3.6	65.9	0.1	4.2
808	Outpatient Care Facilities	1,706	10.3	55.2	0.7	27.5	5.6	*	0.7
81	LEGAL SERVICES	2,690	0.8	46.1	*	51.5	1.5	0.1	*
83	SOCIAL SERVICES	5,575	8.3	40.4	0.4	18.3	25.4	0.6	6.6
833	Job Training and Vocational Rehabilitation Services	1,100	10.0	48.5	0.4	19.0	15.5	0.2	6.4
835	Child Day Care Services	1,285	5.8	43.0	*	27.2	21.6	0.2	2.2
836	Residential Care	1,355	8.0	27.9	1.1	5.4	53.4	0.9	3.3
839	Social Services, Not Elsewhere Classified	1,062	6.9	42.6	0.2	26.8	9.0	1.0	13.5
86	MEMBERSHIP ORGANIZATIONS	2,629	8.9	23.1	2.4	25.0	36.4	1.0	3.2
864	Civic, Social, and Fraternal Associations	1,655	4.1	17.5	0.1	19.2	55.0	0.5	3.6
89	MISCELLANEOUS SERVICES	3,470	5.0	68.2	1.0	23.2	0.6	*	2.0
891	Engineering, Architectural, and Surveying Services	2,223	3.1	76.4	1.1	15.6	0.6	*	3.2

* LESS THAN 0.05 PERCENT

THE TWENTY FIVE OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN SELECTED NONMANUFACTURING INDUSTRIES

Forty percent of the covered employees in the selected nonmanufacturing industries were employed in the twenty five specific occupations listed below. These specific occupations comprise only 7.6 percent of the grand total of 326 specific occupations employing ten or more workers.

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87102	Carpenters	3,350	3.2
2	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	3,002	2.9
3	55338	Bookkeeping, Accounting, and Auditing Clerks	2,921	2.8
4	55347	General Office Clerks	2,690	2.6
5	53102	Tellers	2,397	2.3
6	55100	Secretaries	2,316	2.2
7	66008	Nursing Aides, Orderlies, and Attendants	2,260	2.1
8	32502	Registered Nurses	2,099	2.0
9	13002	Financial Managers	1,970	1.9
10	65008	Waiters and Waitresses	1,595	1.5
11	67002	Maids and Housekeeping Cleaners	1,575	1.5
12	87502	Plumbers, Pipefitters and Steamfitters	1,536	1.5
13	85132	Maintenance Repairers, General Utility	1,505	1.4
14	55305	Receptionists and Information Clerks	1,213	1.2
15	19005	General Managers and Top Executives	1,198	1.1
16	68005	Hairdressers, Hairstylists, and Cosmetologists	1,132	1.1
17	21114	Accountants and Auditors	1,089	1.0
18	15017	Construction Managers	1,073	1.0
19	25105	Computer Programmers	1,071	1.0
20	51002	First Line Supervisors and Manager/ Supervisors-Clerical and Administrative Support Occupations	1,070	1.0
21	43002	Sales Agents and Placers-Insurance	1,065	1.0
22	65005	Bartenders	1,064	1.0
23	98312	Helpers-Carpenters and Related	1,041	1.0
24	55102	Legal Secretaries	1,037	1.0
25	53314	Insurance Policy Processing Clerks	1,034	1.0

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		105,265	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	6,824	6.5
Financial Managers	13002	1,970	1.9
Personnel, Training, and Labor Relations Managers	13005	169	0.2
Purchasing Managers	13008	52	0.1
Marketing, Advertising and Public Relations Managers	13011	462	0.4
Administrative Services Managers	13014	242	0.2
Education Administrators	15005	31	*
Medicine and Health Services Managers	15008	318	0.3
Property and Real Estate Managers and Administrators	15011	52	0.1
Construction Managers	15017	1,073	1.0
Mining, Quarrying and Well Drilling Managers	15021	15	*
Food Service and Lodging Managers	15026	471	0.4
General Managers and Top Executives	19005	1,198	1.1
All Other Managers and Administrators	19999	771	0.7
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	20,796	19.7
Underwriters	21102	439	0.4
Credit Analysts	21105	130	0.1
Loan Officers and Counselors	21108	467	0.4
Tax Preparers	21111	53	0.1
Accountants and Auditors	21114	1,089	1.0
Budget Analysts	21117	35	*
All Other Financial Specialists	21199	92	0.1
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	109	0.1
Special Agents, Insurance	21505	82	0.1
Employment Interviewers, Private or Public Employment Service	21508	172	0.2
Personnel, Training and Labor Relations Specialists	21511	206	0.2
Cost Estimators	21902	509	0.5
Management Analysts	21905	61	0.1
Construction and Building Inspectors	21908	50	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Compliance Officers and Enforcement Inspectors, Except Construction	21911	10	*
Claims Examiners, Property and Casualty Insurance	21921	307	0.3
All Other Management Support Workers	21999	458	0.4
Metallurgists and Metallurgical, Ceramic and Materials Engineers	22105	10	*
Civil Engineers, Including Traffic	22121	184	0.2
Electrical and Electronic Engineers	22126	205	0.2
Industrial Engineers, Except Safety	22128	48	*
Safety Engineers, Except Mining	22132	23	*
Mechanical Engineers	22135	171	0.2
All Other Engineers	22199	158	0.2
Architects, Except Landscape and Marine	22308	33	*
Surveying and Mapping Scientists	22311	141	0.1
Engineering and Related Technicians and Technologists	22500	66	0.1
Civil Engineering Technicians and Technologists	22502	125	0.1
Electrical and Electronic Engineering Technicians and Technologists	22505	237	0.2
Industrial Engineering Technicians and Technologists	22508	13	*
Mechanical Engineering Technicians and Technologists	22511	71	0.1
Drafters	22514	635	0.6
Surveying and Mapping Technicians and Technologists	22521	206	0.2
All Other Engineering and Related Technicians and Technologists	22599	33	*
Chemists, Except Biochemists	24105	77	0.1
Geologists, Geophysicists, and Oceonographers	24111	33	*
All Other Physical Scientists	24199	22	*
Life Scientists	24300	13	*
Biological Scientists	24308	104	0.1
All Other Life Scientists	24399	14	*
Chemical Technicians and Technologists, Except Health	24505	22	*

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES

(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Physical and Life Science Technicians and Technologists	24599	11	*
Systems Analysts, Electronic Data Processing	25102	418	0.4
Computer Programmers	25105	1,071	1.0
Computer Programmer Aides	25108	161	0.2
Operations and Systems Researchers and Analysts, Except Computer	25302	114	0.1
Statisticians	25312	17	*
Actuaries	25313	38	*
Financial Analysts, Statistical	25315	21	*
Psychologists	27108	177	0.2
All Other Social Scientists	27199	27	*
Social Workers, Medical and Psychiatric	27302	422	0.4
Social Workers, Except Medical and Psychiatric	27305	227	0.2
Social Service Technicians	27308	406	0.4
Recreational Workers	27311	192	0.2
Clergy	27502	11	*
Lawyers	28108	994	0.9
Law Clerks	28302	55	0.1
Paralegal Personnel	28305	168	0.2
Title Searchers	28308	24	*
Title Examiners and Abstractors	28311	53	0.1
All Other Legal Assistants and Technicians, Except Clerical	28399	3	*
Lecturers	31111	60	0.1
Teachers, Preschool and Kindergarten	31302	534	0.5
Teachers, Elementary School	31305	49	*
Teachers and Instructors, Vocational Education and Training	31314	192	0.2
Instructors, Nonvocational Education	31317	281	0.3
Instructors and Coaches, Sports and Physical Training	31321	548	0.5
All Other Teachers and Instructors	31399	172	0.2
Librarians, Professional	31502	23	*
Curators, Archivists, Museum Technicians and Restorers	31511	17	*
Vocational and Educational Counselors	31514	32	*
Instructional Coordinators	31517	74	0.1
Physicians and Surgeons	32102	956	0.9
Dentists	32105	278	0.3
Optometrists	32108	56	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Health Diagnosing and Treating Practitioners	32199	7	*
Occupational Therapists	32305	68	0.1
Physical Therapists	32308	99	0.1
Speech Pathologists and Audiologists	32314	15	*
Recreational Therapists	32317	82	0.1
All Other Therapists	32399	49	*
Registered Nurses	32502	2,099	2.0
Licensed Practical Nurses	32505	796	0.8
Physicians Assistants	32511	203	0.2
Opticians, Dispensing and Measuring	32514	97	0.1
Dietitians and Nutritionists	32521	63	0.1
Dietetic Technicians	32523	57	0.1
Medical and Clinical Laboratory Technologists	32902	147	0.1
Medical and Clinical Laboratory Technicians	32905	38	*
Dental Hygienists	32908	510	0.5
Medical Records Technicians and Technologists	32911	41	*
Radiologic Technologists	32917	20	*
Radiologic Technicians	32921	61	0.1
All Other Health Professionals	32999	246	0.2
Writers and Editors	34002	115	0.1
Technical Writers	34005	27	*
Public Relations Specialists and Publicity Writers	34008	135	0.1
Announcers, Radio and Television	34017	14	*
Photographers	34023	48	*
Artists and Related Workers	34035	76	0.1
Designers, Except Interior Designers	34038	106	0.1
Musicians, Instrumental	34051	93	0.1
Dancers and Choreographers	34053	15	*
Producers, Directors, Actors and Other Entertainers	34056	37	*
Athletes, Coaches, Umpires and Related Workers	34058	42	*
Funeral Directors	39011	114	0.1
Embalmers	39014	17	*
All Other Professional, Paraprofessional and Technical Workers	39999	306	0.3
SALES OCCUPATION	40000-49999	5,301	4.7

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	797	0.8
Sales Agents and Placers-Insurance	43002	1,065	1.0
Brokers, Real Estate	43005	133	0.1
Sales Agents, Real Estate	43008	378	0.3
Appraisers, Real Estate	43011	97	0.1
Sales Agents, Securities, Commodities, and Financial Services	43014	264	0.2
Sales Agents, Selected Business Services	43017	186	0.2
Sales Agents, Advertising	43023	37	*
All Other Sales Representatives and Sales Persons, Service	43099	57	0.1
Sales Engineers	49002	65	0.1
Sales Representatives, Scientific and Related Products and Service-Except Retail	49005	63	0.1
Sales Representatives, Except Scientific and Related Products, or Services and Retail	49008	358	0.3
Sales Persons, Retail	49011	77	0.1
Sales Persons, Parts	49014	63	0.1
Counter and Rental Clerks	49017	441	0.4
Cashiers	49023	752	0.7
Demonstrators, Promoters, and Models	49032	10	*
All Other Sales and Related Workers	49999	188	0.2
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	27,415	26.0
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	1,070	1.0
Tellers	53102	2,397	2.3
New Accounts Clerks	53105	508	0.5
Transit Clerks	53108	98	0.1
Loan Interviewers	53111	99	0.1
Credit Checkers	53117	139	0.1
Loan and Credit Clerks	53121	659	0.6
Adjustment Clerks	53123	77	0.1
Statement Clerks	53126	252	0.2
Brokerage Clerks	53128	70	0.1
Insurance Adjusters, Examiners, and Investigators	53302	385	0.4

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Insurance Appraisers, Auto Damage	53305	21	*
Insurance Examining Clerks	53308	41	*
Insurance Claims Clerks	53311	214	0.2
Insurance Policy Processing Clerks	53314	1,034	1.0
Welfare Eligibility Workers and Interviewers	53502	41	*
Bill and Account Collectors	53508	217	0.2
Travel Clerks	53802	25	*
Hotel Desk Clerks	53808	441	0.4
Teacher Aides and Educational Assistants, Clerical	53905	379	0.4
Real Estate Clerks	53914	62	0.1
Secretaries	55100	2,316	2.2
Legal Secretaries	55102	1,037	1.0
Medical Secretaries	55105	688	0.7
All Other Secretaries	55199	1,217	1.2
Stenographers	55302	79	0.1
Receptionists and Information Clerks	55305	1,213	1.2
Typists	55308	869	0.8
Typists, Word Processing	55311	386	0.4
Personnel Clerks, Except Payroll and Timekeeping	55314	83	0.1
Correspondence Clerks	55317	18	*
File Clerks	55321	672	0.6
Order Clerks	55323	128	0.1
Statistical Clerks	55328	96	0.1
Interviewing Clerks, Except Personnel and Social Welfare	55332	170	0.2
Bookkeeping, Accounting, and Auditing Clerks	55338	2,921	2.8
Payroll and Timekeeping Clerks	55341	359	0.3
Billing, Cost and Rate Clerks	55344	300	0.3
General Office Clerks	55347	2,690	2.6
Billing, Posting, and Calculating Machine Operators	56002	184	0.2
Duplicating Machine Operators	56005	31	*
Mail Machine Operators, Preparation and Handling	56008	119	0.1
Computer Operators, Except Peripheral Equipment	56011	400	0.4
Peripheral EDP Equipment Operators	56014	91	0.1
Data Entry Keyers, Except Composing	56017	897	0.9
All Other Office Machine Operators	56099	80	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Switchboard Operators	57102	432	0.4
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	207	0.2
Messengers	57311	145	0.1
Dispatchers, Except Police, Fire, and Ambulance	58005	24	*
Production, Planning, and Expediting Clerks	58008	49	*
Weighers, Measurers, Checkers, and Samplers-Recordkeeping	58017	25	*
Stock Clerks-Stockroom, Warehouse, or Storage Yard	58023	218	0.2
Traffic, Shipping, and Receiving Clerks	58028	46	*
All Other Material Recording, Scheduling, and Distributing Workers	58099	45	*
All Other Clerical and Administrative Support Workers	59999	951	0.9
SERVICE OCCUPATIONS	60000-69999	18,599	17.7
First Line Supervisors and Manager/Supervisors-Service	61000	144	0.1
Housekeepers	61008	636	0.6
All Other Supervisors and Manager/Supervisors	61099	121	0.1
Detectives and Investigators, Except Public	63035	65	0.1
Crossing Guards	63044	36	*
Guards and Watch Guards	63047	1,003	1.0
All Other Protective Service Workers	63099	19	*
Food and Beverage Preparation and Service Occupations	65000	198	0.2
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop	65002	171	0.2
Bartenders	65005	1,064	1.0
Waiters and Waitresses	65008	1,595	1.5
Food Servers, Outside	65011	118	0.1
Dining Room and Cafeteria Attendants and Bartender Helpers	65014	336	0.3
Counter Attendants-Lunch Room, Coffee Shop, or Cafeteria	65017	50	0.1
Bakers, Bread and Pastry	65021	14	*
Cooks, Restaurant	65026	456	0.4
Cooks, Institution or Cafeteria	65028	345	0.3
Cooks, Specialty-Fast Food	65032	95	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Cooks, Short Order	65035	24	*
Food Preparation Workers	65038	833	0.8
Combined Food Preparation and Service Workers	65041	17	*
All Other Food Service Workers	65099	255	0.2
Dental Assistants	66002	608	0.6
Medical Assistants	66005	144	0.1
Nursing Aides, Orderlies, and Attendants	66008	2,260	2.1
Home Health Aides	66011	231	0.2
Physical and Corrective Therapy Assistants and Aides	66017	58	0.1
Occupational Therapy Assistants and Aides	66021	15	*
Ambulance Drivers and Attendants Except Emergency	66023	14	*
All other Health Service Workers	66099	100	0.1
Maids and Housekeeping Cleaners	67002	1,575	1.5
Janitors and Cleaners-Except Maids and Housekeeping Cleaners	67005	3,002	2.9
Elevator Operators	67011	27	*
All Other Cleaning and Building Service Workers, Except Private Households	67099	141	0.1
Barbers	68002	62	0.1
Hairdressers, Hairstylists, and Cosmetologists	68005	1,132	1.1
Manicurists	68008	10	*
Shampooers	68011	16	*
Amusement and Recreation Attendants	68014	343	0.3
Guides	68017	16	*
Ushers, Lobby Attendants, and Ticket Takers	68021	303	0.3
Baggage Porters and Bellhops	68023	58	0.1
Social Welfare Service Aides	68035	148	0.1
Child Care Workers	68038	363	0.3
Funeral Attendants	68041	17	*
All Other Service Workers	69999	361	0.3
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	893	1.0
Gardeners and Groundskeepers, Except Farm	79014	855	1.0
Animal Caretakers, Except Farm	79017	28	*
All Other Agricultural, Forestry, Fishing and Related Workers	79999	10	*

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	25,707	24.4
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	81002	312	0.3
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	929	0.9
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand	81017	67	0.1
All Other First Line Supervisors and Manager/Supervisors-Production, Maintenance and Related	81099	122	0.1
Precision Inspectors, Testers and Graders	83002	67	0.1
Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers	83005	36	*
All other Inspectors, Testers, and Related Occupations	83099	205	0.2
Millwrights	85123	47	*
Machinery Maintenance Workers	85128	28	*
Maintenance Repairers, General Utility	85132	1,505	1.4
Automotive Mechanics	85302	573	0.5
Automotive Body and Related Repairers	85305	507	0.5
Bus and Truck Mechanics, and Diesel Engine Specialists	85311	171	0.2
Mobile Heavy Equipment Mechanics, Except Engines	85314	186	0.2
Small Engine Specialists	85328	13	*
Radio Mechanics	85514	13	*
Telephone and Cable Television Line Installers and Repairers	85702	117	0.1
Data Processing Equipment Repairers	85705	35	*
Electronic Home Entertainment Equipment Repairers	85708	22	*
Electric Home Appliance and Power Tool Repairers	85711	11	*
Electric Motor, Transformer, and Related Repairers	85714	83	0.1
Electronics Repairers,Commercial and Industrial Equipment	85717	34	*

STAFFING PATTERNS
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(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Electrical Powerline Installers and Repairers	85723	64	0.1
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	35	*
Heating, Air Conditioning and Refrigeration Mechanics and Installers	85902	245	0.2
Office Machine and Cash Register Servicers	85926	25	*
Riggers	85935	10	*
Coin and Vending Machine Servicers and Repairers	85947	23	*
Tire Repairers and Changers	85953	23	*
Menders-Garments, Linens, and Related	85956	30	*
All Other Mechanics, Installers and Repairers	85999	189	0.2
Carpenters	87102	3,350	3.2
Ceiling Tile Installers and Acoustical Carpenters	87105	157	0.2
Drywall Installers	87108	538	0.5
Tapers	87111	108	0.1
Electricians	87202	907	0.9
Brick Masons	87302	381	0.4
Stone Masons	87305	44	*
Hard Tile Setters	87308	14	*
Concrete and Terrazzo Finishers	87311	192	0.2
Reinforcing Metal Workers	87314	36	*
Plasterers and Stucco Masons	87317	12	*
Painters and Paperhangers	87402	766	0.7
Plumbers, Pipefitters and Steamfitters	87502	1,536	1.5
Pipelayers	87508	97	0.1
Septic Tank Servicers and Sewer Pipe Cleaners	87511	33	*
Carpet Installers	87602	88	0.1
Air Hammer Operators	87702	120	0.1
Paving, Surfacing, and Tamping Equipment Operators	87708	223	0.2
Insulation Workers	87802	139	0.1
Roofers	87808	144	0.1
Structural Metal Workers	87814	163	0.2
Fence Erectors	87817	89	0.1
All Other Construction Trades Workers	87899	299	0.3
Earth Drillers, Except Oil and Gas	87902	105	0.1
Blasters and Explosives Workers	87905	84	0.1

STAFFING PATTERNS
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(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Extractive Workers, Except Helpers	87989	8	*
All Other Construction and Extractive Workers, Except Helpers	87999	9	*
Machinists	89108	73	0.1
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	22	*
Sheet Metal Workers	89132	371	0.4
Boilermakers	89135	35	*
All Other Precision Metal Workers	89199	10	*
Cabinetmakers and Bench Carpenters	89311	87	0.1
All Other Precision Wood Workers	89399	9	*
Custom Tailors and Sewers	89505	26	*
Upholsterers	89508	48	*
Spotters, Dry Cleaning	89514	45	*
Pressers, Delicate Fabrics	89517	70	0.1
Job Printers	89705	20	*
Precision Photographic Process Workers	89914	14	*
Precision Dental Laboratory Technicians	89921	141	0.1
All Other Precision Workers	89999	35	*
Metal Fabricators, Structural Metal Products	91714	80	0.1
Sawing Machine Operators and Tenders	92308	37	*
Printing Press Machine Operators and Tenders	92543	61	0.1
Sewing Machine Operators, Garment	92717	14	*
Sewing Machine operators, Non-Garment	92721	17	*
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	92726	370	0.4
Pressing Machine Operators and Tenders-Textile, Garment and Related Materials	92728	219	0.2
Motion Picture Projectionists	92905	64	0.1
Photographic Processing Machine Operators and Tenders	92908	105	0.1
Painters, Transportation Equipment	92947	34	*
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	77	0.1

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Packaging and Filling Machine Operators and Tenders	92974	15	*
All Other Machine Operators and Tenders	92998	122	0.1
Handworking Occupations, Including Assemblers and Fabricators	93000	23	*
Fitters, Structural Metal-Precision	93108	17	*
Welders and Cutters	93914	148	0.1
Solderers and Brazers	93917	58	0.1
Pressers, Hand	93921	15	*
Engraving and Printing Workers, Hand	93951	11	*
All Other Hand Workers	93999	146	0.1
Stationary Engineers	95032	29	*
All Other Plant and System Operators	95099	7	*
Truck Drivers, Heavy or Tractor Trailer	97102	893	0.8
Truck Drivers, Light-Including Delivery and Route Workers	97105	383	0.4
Bus Drivers	97108	87	0.1
Bus Drivers, School	97111	24	*
Driver/Sales Workers	97117	245	0.2
All Other Motor Vehicle Operators	97199	157	0.2
Service Station Attendants	97805	90	0.1
Parking Lot Attendants	97808	16	*
All Other Transportation and Related Workers	97899	23	*
Excavating and Loading Machine Operators	97923	436	0.4
Grader, Dozer, and Scraper Operators	97938	467	0.4
Crane and Tower Operators	97944	46	*
Industrial Truck and Tractor Operators	97947	142	0.1
Pump Operators	97953	19	*
Operating Engineers	97956	281	0.3
All Other Transportation and Material Moving Equipment Operators	97989	74	0.1
All Other Material Moving Equipment Operators	97999	67	0.1
Mechanic and Repairer Helpers	98102	112	0.1
Helpers, Brick and Stone Masons Hard Tile Setters	98311	219	0.2
Helpers-Carpenters and Related	98312	1,041	1.0
Helpers-Electricians and Powerline Transmission Installers	98313	279	0.3

STAFFING PATTERNS
SELECTED NONMANUFACTURING INDUSTRIES
(SIC 14-17, 60-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons	98314	47	*
Helpers-Plumbers, Pipefitters and Steamfitters	98315	210	0.2
Helpers-Roofers	98316	129	0.1
Helpers-All Other Construction Trades	98319	99	0.1
Helpers-Extractive Workers	98323	83	0.1
Machine Feeders and Offbearers	98502	176	0.2
Freight, Stock and Material Movers, Hand	98700	293	0.3
Hand Packers and Packagers	98902	54	0.1
Vehicle Washers and Equipment Cleaners	98905	133	0.1
All Other Helpers, Laborers, and Material Movers, Hand	98999	1,338	1.3

* LESS THAN 0.05 PERCENT

MINING AND CONTRACT CONSTRUCTION

(SIC 14 - 17)

Mining (SIC 14) includes firms engaged in the extraction of nonmetallic minerals, except fuels. The exploration of resources, well drilling and milling (crushing, washing and sorting) are included in this subdivision. The three broad types of construction activity are: residential and commercial building construction by general building contractors who may combine a special trade with their general contracting (SIC 15); general contractors in construction other than commercial or residential building such as highways, streets, dams etc. (SIC 16); special trade contractors involved in specialized activities such as plumbing, painting, carpentering and plastering (SIC 17). Special trade contractors often work under sub contracts from a general contractor and perform only a specialized part of the work covered by the general contract.

There were 23,412 wage and salary workers employed in mining and contract construction industries during the second quarter of 1984. The major occupational group employing the greatest number of workers in mining and contract construction was the production, construction, operating maintenance, and material handling occupations with 18,026 employees. This represents 77.0 percent of all mining and contract construction workers and 70.1 percent of all production occupations in the entire survey. Carpenters dominated the division with 3,187 workers (86.5 percent of which were in residential and commercial building construction) followed by Plumbers and Pipefitters with 1,507 (48.8 percent of which were in special trade construction), construction managers with 1,073 workers (53.4 percent of which were in residential and commercial building construction and 40.3 percent in special trade construction), carpenter helpers with 1,041 workers (78.4 percent of which were reported in residential and commercial building construction).

Our sample consisted of 433 units representing an employment of 12,125. Usable responses were received from 303 units or 70 percent of the units sampled. The reported employment was 8,452 or 70 percent of the employment in the sample.

THE FIFTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN MINING AND CONSTRUCTION

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87102	Carpenters	3,187	13.6
2	87502	Plumbers and Pipefitters	1,507	6.4
3	15017	Construction Managers	1,073	4.6
4	98312	Helpers-Carpenters and Related	1,041	4.4
5	81005	First Line Supervisors, and Manager/Supervisors-Construction Trades and Extractive Workers	905	3.9
6	97102	Truck Drivers, Heavy or Tractor Trailer	893	3.8
7	87202	Electricians	837	3.6
8	87402	Painters and Paperhangers	678	2.9
9	55100	Secretaries	644	2.7
10	55338	Bookkeeping, Accounting, and Auditing Clerks	584	2.5
11	55347	General Office Clerks	575	2.5
12	87108	Drywall Installers	538	2.3
13	21902	Cost Estimators	475	2.0
14	87302	Brick Masons	381	1.6
15	89132	Sheet Metal Workers	371	1.6

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		23,412	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	1,554	6.6
Financial Managers	13002	336	1.4
Administrative Services Managers	13014	12	0.1
Construction Managers	15017	1,073	4.6
Mining, Quarrying, and Oil and Gas Well Drilling Managers	15021	15	0.1
General Managers and Top Executives	19005	54	0.2
All Other Managers and Administrators	19999	64	0.2
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,010	4.3
Accountants and Auditors	21114	165	0.7
All Other Financial Specialists	21199	1	*
Purchasing Agents	21308	46	0.2
Cost Estimators	21902	475	2.0
Construction and Building Inspectors	21908	41	0.2
All Other Management Support Workers	21999	29	0.1
Civil Engineers, Including Traffic	22121	45	0.2
Mechanical Engineers	22135	63	0.2
All Other Engineers	22199	13	0.1
Civil Engineering Technicians and Technologists	22502	13	0.1
Drafters	22514	93	0.4
All Other Engineering and Related Technicians and Technologists	22599	23	0.1
All Other Professional, Paraprofessional and Technical Workers	39999	3	*
SALES OCCUPATIONS	40000-49999	367	1.7
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	14	0.1
Sales Engineers	49002	65	0.3
Sales Representatives, Except Scientific and Related Products or Services and Retail	49008	275	1.2
All Other Sales and Related Workers	49999	13	0.1

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	2,210	9.4
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	26	0.1
Secretaries	55100	644	2.7
Typists	55308	104	0.4
Typists, Word Processing	55311	17	0.1
Bookkeeping, Accounting, and Auditing Clerks	55338	584	2.5
Payroll and Timekeeping Clerks	55341	107	0.5
General Office Clerks	55347	575	2.5
All Other Office Machine Operators	56099	14	0.1
Weighers, Measurers, Checkers and Samplers-Recordkeeping	58017	25	0.1
Stock Clerks-Stockroom Warehouse or Storage Yard	58023	72	0.3
All Other Material Recording, Scheduling, and Distributing Workers	58099	10	*
All Other Clerical and Administrative Support Workers	59999	32	0.1
SERVICE OCCUPATIONS	60000-69999	180	0.7
First Line Supervisors and Manager/Supervisors-Service	61000	13	0.1
Crossing Guards	63044	36	0.1
All Other Protective Service Workers	63099	5	*
Janitors and Cleaners	67005	124	0.5
All Other Cleaning and Building Service Workers	67099	2	*

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	65	0.3
GARDENERS AND GROUNDSKEEPERS	79014	65	0.3
PRODUCTION, CONSTRUCTION OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	18,026	77.0
First Line Supervisors and Manager/Supervisors-Mechanics, Installers, and Repairers	81002	15	0.1
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	905	3.9
First Line Supervisors and Manager/Supervisors-Helpers, Laborers, and Material Movers, Hand	81017	67	0.3
All other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	44	0.2
All other Inspectors, Testers and Related Occupations	83099	116	0.5
Millwrights	85123	47	0.2
Machinery Maintenance Workers	85128	28	0.1
Maintenance Repairers, General Utility	85132	268	1.1
Automotive Mechanics	85302	29	0.1
Bus and Truck Mechanics and Diesel Engine Specialists	85311	76	0.3
Mobile Heavy Equipment Mechanics, Except Engines	85314	186	0.8
Telephone and Cable TV Line Installers and Repairers	85702	117	0.5
Electrical Powerline Installers and Repairers	85723	64	0.3
All other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	12	0.1
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902	212	0.9
Riggers	85935	10	*
All other Mechanics, Installers, and Repairers	85999	110	0.5
Carpenters	87102	3,187	13.6
Ceiling Tile Installers and Acoustical Carpenters	87105	157	0.7
Drywall Installers	87108	538	2.3

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Tapers	87111	108	0.5
Electricians	87202	837	3.6
Brick Masons	87302	381	1.6
Stone Masons	87305	44	0.2
Hard Tile Setters	87308	14	0.1
Concrete and Terrazzo Finishers	87311	192	0.8
Reinforcing Metal Workers	87314	36	0.2
Plasterers and Stucco Masons	87317	12	0.1
Painters and Paperhangers	87402	678	2.9
Plumbers and Pipefitters	87502	1,507	6.4
Pipelayers	87508	97	0.4
Carpet Installers	87602	88	0.4
Air Hammer Operators	87702	120	0.5
Paving, Surfacing, and Tamping Equipment Operators	87708	223	1.0
Insulation Workers	87802	139	0.6
Roofers	87808	144	0.6
Structural Steel Workers	87814	163	0.7
Fence Erectors	87817	89	0.4
All Other Construction Trades Workers	87899	299	1.3
Earth Drillers, Except Oil and Gas	87902	105	0.4
Blasters and Explosives Workers	87905	84	0.4
All Other Extractive Workers, Except Helpers	87989	8	*
Sheet Metal Workers	89132	371	1.6
Boilermakers	89135	11	*
Cabinetmakers and Bench Carpenters	89311	87	0.4
Metal Fabricators, Structural Metal Products	91714	80	0.3
Sawing Machine Operators and Tenders	92308	37	0.2
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	92965	77	0.3
All Other Machine Operators and Tenders	92998	7	*
Fitters, Structural Metal-Precision	93108	17	0.1
Welders and Cutters	93914	80	0.3
Stationary Engineers	95032	29	0.1
All Other Plant and System Operators	95099	7	*
Truck Drivers, Heavy or Tractor Trailer	97102	893	3.8
Truck Drivers, Light-Include Delivery and Route Workers	97105	157	0.7
All Other Motor Vehicle Operators	97199	7	*

STAFFING PATTERNS
MINING AND CONTRACT CONSTRUCTION
(SIC 14 - 17)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Transportation and Related Workers	97899	21	0.1
Excavating and Loading Machine Operators	97923	436	1.9
Grader, Dozer, and Scraper Operators	97938	467	2.0
Crane and Tower Operators	97944	46	0.2
Industrial Truck and Tractor Operators	97947	58	0.2
Pump Operators	97953	19	0.1
Operating Engineers	97956	281	1.2
All Other Material Moving Equipment Operators	97999	65	0.3
Mechanic and Repairer Helpers	98102	62	0.2
Helpers, Brick and Stone Masons and Hard Tile Setters	98311	219	0.9
Helpers-Carpenters and Related	98312	1,041	4.4
Helpers-Electricians and Powerline Transmission Installers	98313	279	1.2
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons	98314	47	0.2
Helpers-Plumbers, Pipefitters, and Steamfitters	98315	210	0.9
Helpers-Roofers	98316	129	0.6
Helpers-All Other Construction Trades	98319	97	0.4
Helpers-Extractive Workers	98323	83	0.4
Freight, Stock and Material Movers, Hand	98700	104	0.4
All Other Helpers, Laborers and Material Movers, Hand	98999	946	4.0

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 15)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87102	Carpenters	2,757	39.1
2	98312	Helpers, Carpenters and Related	817	11.6
3	15017	Construction Managers	573	8.1
4	81005	First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	326	4.6
5	21902	Cost Estimators	222	3.1
6	55100	Secretaries	205	2.9
7	55338	Bookkeeping, Accounting and Auditing Clerks	198	2.8
8	97102	Truck Drivers, Heavy or Tractor Trailer	148	2.1
9	55347	General Office Clerks	144	2.0
10	97956	Operating Engineers	128	1.8

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	87102	Carpenters	87.0
2	15017	Construction Managers	67.5
3	98312	Helpers, Carpenters and Related	49.4
4	81005	First Line Supervisors and Manager/Supervisors-Construction and Extractive Workers	44.2
5	21902	Cost Estimators	41.6

STAFFING PATTERNS
BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS
(SIC 15)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		7,057	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	731	10.4				
Financial Managers	13002	99	1.4	24	123	75	28.6
Construction Managers	15017	573	8.1	13	646	500	67.5
General Managers and Top Executives	19005	17	0.3	10	19	15	11.7
All Other Managers and Administrators	19999	42	0.6	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	398	5.6				
Accountants and Auditors	21114	55	0.8	39	77	33	15.6
All Other Financial Specialists	21199	1	*	NA	-	-	NA
Purchasing Agents	21308	11	0.2	48	16	6	6.5
Cost Estimators	21902	222	3.1	18	262	182	41.6
All Other Management Support Workers	21999	40	0.5	NA	-	-	NA
All Other Engineers	22199	6	0.1	NA	-	-	NA
Drafters	22514	52	0.7	NA	-	-	NA
All Other Engineering and Related Technicians and Technologists	22599	4	0.1	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	7	0.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	44	0.6	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	637	9.0				
Secretaries	55100	205	2.9	22	249	165	40.3
Typists	55308	45	0.6	33	60	30	6.5
Bookkeeping, Accounting, and Auditing Clerks	55338	198	2.8	20	237	159	39.0
General Office Clerks	55347	144	2.0	25	180	108	29.9
All Other Office Machine Operators	56099	2	*	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	4	0.1	NA	-	-	NA
All Other Clerical and Administrative Workers	59999	39	0.6	NA	-	-	NA

STAFFING PATTERNS
BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS
(SIC 15)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
SERVICE OCCUPATIONS	60000-69999	73	1.0	NA	-	-	NA
All Other Protective Service Workers	63099	1	*	NA	-	-	NA
All Other Cleaning and Building Service Workers	67099	65	0.9	NA	-	-	NA
All Other Service Workers	69999	7	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	29	0.5	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	5,145	72.9				
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	326	4.6	16	379	273	44.2
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	25	0.4	NA	-	-	NA
All Other Mechanics, Installers, and Repairers	85999	108	1.5	NA	-	-	NA
Carpenters	87102	2,757	39.1	7	2,940	2,574	87.0
Brick Masons	87302	63	0.9	33	84	42	14.3
Painters and Paperhangers	87402	64	0.9	28	82	46	10.4
Plumbers and Pipefitters	87502	89	1.3	43	127	51	10.4
All Other Construction Trades Workers	87899	171	2.4	NA	-	-	NA
All Other Precision Metal Workers	89199	9	0.2	NA	-	-	NA
Cabinetmakers and Bench Carpenters	89311	87	1.3	43	125	49	10.4
All Other Machine Operators and Tenders	92998	45	0.6	NA	-	-	NA
All Other Hand Workers	93999	1	*	NA	-	-	NA
Truck Drivers, Heavy or Tractor Trailer	97102	148	2.1	39	206	90	18.2
Truck Drivers, Light-Include Delivery and Route Workers	97105	17	0.2	34	23	11	10.4
All Other Motor Vehicle Operators	97199	1	*	NA	-	-	NA
Operating Engineers	97956	128	1.8	32	169	87	13.0

STAFFING PATTERNS
BUILDING CONSTRUCTION-GENERAL CONTRACTORS AND OPERATIVE BUILDERS
(SIC 15)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Material Moving Equipment Operators	97999	15	0.2	NA	-	-	NA
Mechanic and Repairer Helpers	98102	16	0.2	49	24	8	3.9
Helpers, Brick and Stone Masons, and Hard Tile Setters	98311	36	0.5	47	53	19	7.8
Helpers, Carpenters and Related	98312	817	11.6	15	936	698	49.4
Helpers, All Other Construction Trades	98319	51	0.7	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	171	2.4	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 161)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	97102	Truck Drivers, Heavy or Tractor Trailer	319	19.5
2	87708	Paving, Surfacing and Tamping Equipment Operators	173	10.6
3	97938	Grader, Dozer, and Scraper Operators	103	6.3
4	81005	First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	71	4.3
5	85314	Mobile Heavy Equipment Mechanics, Except Engines	64	3.9
6	87508	Pipelayers	60	3.7
	97923	Excavating and Loading Machine Operators	60	3.7
8	63044	Crossing Guards	36	2.2
9	55347	General Office Clerks	35	2.1
10	85311	Bus and Truck Mechanics, and Diesel Specialists	31	1.9

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	97102	Truck Drivers, Heavy or Tractor Trailer	66.6
	97938	Grader, Dozer, and Scraper Operators	66.6
3	81005	First Line Supervisors and Manager/Supervisors-Construction and Extractive Workers	50.0
4	85314	Mobile Heavy Equipment Mechanics, Except Engines	44.4
	55338	Bookkeeping, Accounting and Auditing Clerks	44.4

STAFFING PATTERNS
HIGHWAY AND STREET CONSTRUCTION, EXCEPT ELEVATED HIGHWAYS
(SIC 161)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		1,633	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	64	3.9				
Financial Managers	13002	13	0.8	21	16	10	33.3
General Managers and Top Executives	19005	15	0.9	15	17	13	27.7
All Other Managers and Administrators	19999	36	2.2	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	45	2.8				
All Other Management Support Workers	21999	1	0.1	NA	-	-	NA
All Other Engineers	22199	13	0.8	NA	-	-	NA
All Other Engineering and Related Technicians and Technologists	22599	31	1.9	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	18	1.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	120	7.3				
Bookkeeping, Accounting and Auditing Clerks	55338	16	1.0	20	19	13	44.4
Payroll and Timekeeping Clerks	55341	11	0.7	18	13	9	33.3
General Office Clerks	55347	35	2.1	32	46	24	38.8
All Other Office Machine Operators	56099	4	0.2	NA	-	-	NA
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	10	0.6	17	12	8	16.6
All Other Material Recording, Scheduling and Distributing Workers	58099	12	0.7	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	32	2.0	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	47	2.9				
Crossing Guards	63044	36	2.2	18	42	30	16.6

STAFFING PATTERNS
HIGHWAY AND STREET CONSTRUCTION, EXCEPT ELEVATED HIGHWAYS
(SIC 161)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Cleaning and Building Service Workers	67099	5	0.3	NA	-	-	NA
All Other Service Workers	69999	6	0.4	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING AND RELATED OCCUPATIONS	70000-79999	27	1.7	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,312	80.3				
First Line, Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	71	4.3	24	88	54	50.0
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand	81017	30	1.8	28	38	22	16.6
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	7	0.4	NA	-	-	NA
All Other Inspectors, Testers, and Related Occupations	83099	3	0.2	NA	-	-	NA
Bus and Truck Mechanics, and Diesel Specialists	85311	31	1.9	29	40	22	22.2
Mobile Heavy Equipment Mechanics, Except Engines	85314	64	3.9	14	23	5	44.4
All Other Mechanics, Installers and Repairers	85999	28	1.7	NA	-	-	NA
Pipelayers	87508	60	3.7	23	74	46	33.3
Paving, Surfacing and Tamping Equipment Operators	87708	173	10.6	27	220	126	38.8
All Other Construction Trades Workers	87899	21	1.3	NA	-	-	NA
Earth Drillers, Except Oil and Gas	87902	16	1.0	28	21	11	22.2
All Other Extractive Workers, Except Helpers	87989	5	0.3	NA	-	-	NA

STAFFING PATTERNS
HIGHWAY AND STREET CONSTRUCTION, EXCEPT ELEVATED HIGHWAYS
(SIC 161)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Machine Operators and Tenders	92998	23	1.4	NA	-	-	NA
All Other Hand Workers	93999	3	0.2	NA	-	-	NA
All Other Plant and System Operators	95099	7	0.4	NA	-	-	NA
Truck Drivers, Heavy or Tractor Trailer	97102	319	19.5	7	341	297	66.6
Truck Drivers, Light-Include Delivery and Route Workers	97105	10	0.6	34	13	7	16.6
All Other Motor Vehicle Operators	97199	6	0.4	NA	-	-	NA
Excavating and Loading Machine Operators	97923	60	3.7	27	76	44	38.8
Grader, Dozer, and Scraper Operators	97938	103	6.3	10	113	93	66.6
All Other Material Moving Equipment Operators	97999	52	3.2	NA	-	-	NA
Helpers-All Other Construction Trades	98319	38	2.3	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	182	11.2	NA	-	-	NA

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 17)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	87202	Electricians	808	7.1
2	87502	Plumbers and Pipefitters	735	6.5
3	87402	Painters and Paperhangers	614	5.4
4	87108	Drywall Installers	522	4.6
5	15017	Construction Managers	432	3.8
6	55100	Secretaries	393	3.5
7	55347	General Office Clerks	335	3.0
8	55338	Bookkeeping, Accounting, and Auditing Clerks	306	2.7
9	87302	Brick Masons	296	2.6
	97923	Excavating and Loading Machine Operators	296	2.6

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	15017	Construction Managers	43.7
2	55338	Bookkeeping, Accounting, and Auditing Clerks	40.2
3	55100	Secretaries	34.5
4	55347	General Office Clerks	33.9
5	21902	Cost Estimators	27.6

STAFFING PATTERNS
CONSTRUCTION-SPECIAL TRADE CONTRACTORS
(SIC 17)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		11,301	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	645	5.7				
Financial Managers	13002	184	1.6	18	218	150	25.3
Construction Managers	15017	432	3.8	12	482	382	43.7
All Other Managers and Administrators	19999	29	0.3	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	410	3.6				
Accountants and Auditors	21114	103	0.9	21	125	81	13.2
Purchasing Agents	21308	30	0.2	35	41	29	6.9
Cost Estimators	21902	208	1.8	15	238	178	27.6
All Other Management Support Workers	21999	19	0.2	NA	-	-	NA
All Other Engineers	22199	19	0.2	NA	-	-	NA
All Other Engineering and Related Technicians and Technologists	22599	31	0.3	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	276	2.5				
Sales Representatives, Except Scientific and Related Products or Services and Retail	49008	248	2.1	26	312	184	17.2
All other Sales and Related Workers	49999	28	0.4	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,225	10.8				
Secretaries	55100	393	3.5	29	507	279	34.5
Typists	55308	53	0.5	25	66	40	9.2
Bookkeeping, Accounting, and Auditing Clerks	55338	306	2.7	12	342	270	40.2
Payroll and Timekeeping Clerks	55341	61	0.5	26	78	44	10.3
General Office Clerks	55347	335	3.0	15	385	285	33.9
All Other Office Machine Operators	56099	5	*	NA	-	-	NA
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	59	0.5	29	76	42	12.1

STAFFING PATTERNS
CONSTRUCTION-SPECIAL TRADE CONTRACTORS
(SIC 17)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Material Recording, Scheduling, and Distributing Workers	58099	2	*	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	11	0.1	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	52	0.5	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	3	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	8,690	76.9				
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	355	3.1	14	377	333	6.3
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	19	0.2	NA	-	-	NA
Maintenance Repairers, General Utility	85132	122	1.1	25	153	91	9.8
Mobile Heavy Equipment Mechanics, Except Engines	85314	61	0.5	26	77	45	4.6
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	181	1.6	NA	-	-	NA
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902	212	1.9	27	268	156	9.8
All Other Mechanics, Installers and Repairers	85999	170	1.5	NA	-	-	NA
Drywall Installers	87108	522	4.6	29	673	371	6.3
Electricians	87202	808	7.1	12	906	710	12.6
Painters and Paperhangers	87402	614	5.4	13	696	532	9.2
Plumbers and Pipefitters	87502	735	6.5	12	821	649	17.8

STAFFING PATTERNS
CONSTRUCTION-SPECIAL TRADE CONTRACTORS
(SIC 17)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Construction Trades Workers	87899	1,842	16.3	NA	-	-	NA
All Other Extractive Workers, Except Helpers	87989	93	0.8	NA	-	-	NA
All Other Precision Metal Workers	89199	362	3.2	NA	-	-	NA
All Other Machine Operators and Tenders	92998	77	0.7	NA	-	-	NA
All Other Hand Workers	93999	63	0.6	NA	-	-	NA
All Other Plant and System Operators	95099	11	0.1	NA	-	-	NA
Truck Drivers, Heavy or Tractor Trailer	97102	185	1.6	29	240	130	8.6
Truck Drivers, Light-Include Delivery and Route Workers	97105	110	1.0	29	142	78	9.8
All Other Transportation and Related Workers	97899	10	0.1	NA	-	-	NA
Excavating and Loading Machine Operators	97923	296	2.6	18	349	243	12.1
Grader, Dozer, and Scraper Operators	97938	274	2.4	18	322	226	11.5
All other Material Moving Equipment Operators	97999	202	1.8	NA	-	-	NA
Helpers, Electricians and Powerline Transmission Installers	98313	279	2.5	19	333	225	6.3
Helpers, Plumbers, Pipefitters, and Steamfitters	98315	197	1.7	29	254	140	9.2
Helpers, All Other Construction Trades	98319	286	2.5	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	604	5.4	NA	-	-	NA

* LESS THAN 0.05 PERCENT

FINANCE, INSURANCE AND REAL ESTATE

(SIC 60 -67)

The finance, insurance and real estate division is the smallest of the three divisions surveyd with 22,630 workers or 21.5 percent of the total industry employment.

The finance industry includes banks, credit agencies, security and commodity brokers and holding and other investment companies (SIC 60 - 62,67). Insurance includes insurance carriers, agents and brokers (SIC 63,64). Real estate owners, lessors, lessees, buyers, sellers, agents and developers are included in real estate (SIC 65). Those firms which do not specialize in any one of these fields, but are regularly engaged in some combination of real estate, insurance, loans, or the practice of law are classified in SIC 66.

Staffing patterns for finance, insurance and real estate showed that clerical, professional and technical, and sales occupations comprise 83.0 percent of the employment in this division. In the clerical group, tellers are the predominant occupation with 10.6 percent (2,397) of the total employment (22,630). Other jobs with a significant number of workers are: insurance sales agents and placers (1,065); insurance policy processing clerks (1,034); general office clerks (984) and bookkeeping, accounting and auditing clerks (958). Professional, paraprofessional and technical occupations account for 14.8 percent of the employment. Within this group, computer programmers dominate the workers with 17.7 percent followed by loan officers and counselors (13.9 percent) and underwriters (13.1 percent).

Our sample consisted of 529 units representing an employment of 16,429. Usable responses were received from 410 units or 77.5 percent of the units sampled. The reported employment was 13,690 or 83.3 percent of the employment in the sample.

THE FIFTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN FINANCE, INSURANCE AND REAL ESTATE

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	53102	Tellers	2,397	10.6
2	43002	Sales Agents and Placers-Insurance	1,065	4.7
3	53314	Insurance Policy Processing Clerks	1,034	4.6
4	55347	General Office Clerks	984	4.3
5	55338	Bookkeeping, Accounting and Auditing Clerks	958	4.2
6	13002	Financial Managers	793	3.5
7	53121	Loan and Credit Clerks	659	2.9
8	51002	First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	611	2.7
9	25105	Computer Programmers	592	2.6
10	53105	New Account Clerks	508	2.2
11	85132	Maintenance Repairers, General Utility	507	2.2
12	56017	Data Entry Keyers, Except Composing	483	2.1
13	19005	General Managers and Top Executives	479	2.1
14	21108	Loan Officers and Counselors	467	2.1
15	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	453	2.0

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF PERCENT
TOTAL ALL OCCUPATIONS		22,630	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	1,999	8.8
Financial Managers	13002	793	3.5
Personnel, Training, and Labor Relations Managers	13005	72	0.3
Purchasing Managers	13008	20	0.1
Marketing, Advertising, and Public Relations Managers	13011	107	0.5
Administrative Services Managers	13014	72	0.3
Property and Real Estate Managers and Administrators	15011	52	0.2
Food Service and Lodging Managers	15026	15	0.1
General Managers and Top Executives	19005	479	2.1
All Other Managers and Administrators	19999	389	1.7
TOTAL			
PROFESSIONAL, PARAPROFESSIONAL and TECHNICAL OCCUPATIONS	20000-39999	3,349	14.8
Underwriters	21102	439	1.9
Credit Analysts	21105	130	0.6
Loan Officers and Counselors	21108	467	2.1
Accountants and Auditors	21114	178	0.8
Budget Analysts	21117	22	0.1
All Other Financial Specialists	21199	74	0.3
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	12	0.1
Special Agents, Insurance	21505	82	0.4
Personnel, Training, and Labor Relations Specialists	21511	68	0.3
Claims Examiners, Property and Casualty Insurance	21921	307	1.4
All Other Management Support Workers	21999	154	0.7
Safety Engineers, Except Mining	22132	16	0.1
All Other Engineering and Related Technicians and Technologists	22599	3	*
All Other Physical Scientists	24199	2	*
Systems Analysts, Electronic Data Processing	25102	216	1.0
Computer Programmers	25105	592	2.6
Computer Programmer Aides	25108	107	0.5

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Operations and Systems Researchers and Analysts, Except Computer	25302	110	0.5
Statisticians	25312	14	0.1
Actuaries	25313	36	0.1
Financial Analysts	25315	21	0.1
All Other Social Scientists	27199	9	*
Lawyers	28108	16	0.1
Title Examiners and Abstractors	28311	46	0.2
All Other Legal Assistants and Technicians, Except Clerical	28399	10	*
All Other Health Professionals, Paraprofessionals and Technicians	32999	12	0.1
Public Relations Specialists and Publicity Writers	34008	38	0.1
All Other Professional, Paraprofessional and Technical Workers	39999	168	0.7
SALES OCCUPATIONS	40000-49999	2,493	11.0
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	441	1.9
Sales Agents and Placers-Insurance	43002	1,065	4.7
Brokers, Real Estate	43005	133	0.6
Sales Agents, Real Estate	43008	378	1.7
Appraisers, Real Estate	43011	97	0.4
Sales Agents, Securities, Commodities and Financial Services	43014	264	1.2
All Other Sales Representatives and Sales Persons, Service	43099	32	0.1
Cashiers	49023	44	0.2
All Other Sales and Related Workers	49999	20	0.1
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	12,951	57.2
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	611	2.7
Tellers	53102	2,397	10.6
New Accounts Clerks	53105	508	2.2
Transit Clerks	53108	98	0.4
Loan Interviewers	53111	99	0.4
Credit Checkers	53117	117	0.5

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Loan and Credit Clerks	53121	659	2.9
Adjustment Clerks	53123	69	0.3
Statement Clerks	53126	252	1.1
Brokerage Clerks	53128	70	0.3
Insurance Adjusters, Examiners, and Investigators	53302	385	1.7
Insurance Appraisers, Auto Damage	53305	21	0.1
Insurance Examining Clerks	53308	41	0.2
Insurance Claims Clerks	53311	214	0.9
Insurance Policy Processing Clerks	53314	1,034	4.6
Bill and Account Collectors	53508	155	0.7
Real Estate Clerks	53914	62	0.3
Secretaries	55100	314	1.4
All Other Secretaries	55199	700	3.1
Stenographers	55302	38	0.2
Receptionists and Information Clerks	55305	273	1.2
Typists	55308	264	1.2
Typists, Word Processing	55311	147	0.6
Personnel Clerks, Except Payroll and Timekeeping	55314	55	0.2
Correspondence Clerks	55317	15	0.1
File Clerks	55321	435	1.9
Statistical Clerks	55328	91	0.4
Bookkeeping, Accounting and Auditing Clerks	55338	958	4.2
Payroll and Timekeeping Clerks	55341	63	0.3
Billing, Cost and Rate Clerks	55344	185	0.8
General Office Clerks	55347	984	4.3
Billing, Posting, and Calculating Machine Operators	56002	110	0.5
Duplicating Machine Operators	56005	11	*
Mail Machine Operators, Preparation and Handling	56008	26	0.1
Computer Operators, Except Peripheral Equipment	56011	219	1.0
Peripheral EDP Equipment Operators	56014	46	0.2
Data Entry Keyers, Except Composing	56017	483	2.1
All Other Office Machine Operators	56099	24	0.1
Switchboard Operators	57102	140	0.6
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	145	0.6
Messengers	57311	114	0.5
Stock Clerks-Stock Room, Warehouse or Storage Yard	58023	54	0.2

STAFFING PATTERNS

FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Material Recording, Scheduling, and Distributing Workers	58099	26	0.1
All Other Clerical and Administrative Support Workers	59999	239	1.1
SERVICE OCCUPATIONS	60000-69999	773	3.4
First Line Supervisors and Manager/Supervisors-Service	61000	49	0.2
Guards and Watch Guards	63047	67	0.3
All Other Protective Service Workers	63099	7	*
Food and Beverage Preparation and Service Occupations	65000	63	0.3
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	453	2.0
Elevator Operators	67011	22	0.1
All Other Cleaning and Building Service Workers, Except Private Households	67099	69	0.3
All Other Service Workers	69999	43	0.2
AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	70000-79999	269	1.3
Gardeners and Groundskeepers, Except Farm	79014	269	1.3
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	796	3.5
First Line Supervisors and Manager/Supervisors-Construction Trades, and Extractive Workers	81005	10	*
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	8	*
Maintenance Repairers, General Utility	85132	507	2.2
All Other Mechanics, Installers, and Repairers	85999	3	*
Carpenters	87102	86	0.4
Painters and Paperhangers	87402	66	0.3
Plumbers and Pipefitters	87502	15	0.1

STAFFING PATTERNS
FINANCE, INSURANCE AND REAL ESTATE
(SIC 60-67)

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Construction and Extractive Workers, Except Helpers	87999	12	0.1
Job Printers	89705	20	0.1
All Other Precision Workers	89999	7	*
Hand Working Occupations, Including Assemblers and Fabricators	93000	18	0.1
All Other Transportation and Material Moving Equipment Operators	97989	17	0.1
All Other Helpers, Laborers, and Material Movers, Hand	98999	27	0.1

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 60)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	53102	Tellers	2,000	28.6
2	53121	Loan and Credit Clerks	458	6.6
3	53105	New Accounts Clerks	434	6.2
4	55338	Bookkeeping, Accounting and Auditing Clerks	348	5.0
5	13002	Financial Managers	316	4.5
6	21108	Loan Officers and Counselors	274	3.9
	55347	General Office Clerks	274	3.9
8	51002	First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	227	3.2
9	53126	Statement Clerks	220	3.1
10	19005	General Managers and Top Executives	207	3.0

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	53102	Tellers	100.0
2	53105	New Accounts Clerks	97.8
3	53121	Loan and Credit Clerks	89.1
4	13002	Financial Managers	84.8
5	55338	Bookkeeping, Accounting and Auditing Clerks	80.4

STAFFING PATTERNS
BANKING
(SIC 60)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL OCCUPATIONS		6,986	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	748	10.7				
Financial Managers	13002	316	4.5	20	380	252	84.8
Personnel, Training, and Labor Relations Managers	13005	35	0.5	22	43	27	43.5
Purchasing Managers	13008	11	0.1	45	16	6	17.4
Marketing, Advertising, and Public Relations Managers	13011	35	0.5	23	43	27	39.1
General Managers and Top Executives	19005	207	3.0	22	253	161	54.3
All Other Managers and Administrators	19999	144	2.1	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	643	9.2				
Loan Officers and Counselors	21108	274	3.9	13	310	238	67.4
Accountants and Auditors	21114	71	1.0	20	85	57	47.8
All Other Financial Specialists	21199	127	1.8	NA	-	-	NA
Personnel, Training, and Labor Relations Specialists	21511	21	0.3	25	30	20	23.9
All Other Management Support Workers	21999	66	0.9	NA	-	-	NA
Systems Analysts, Electronic Data Processing	25102	22	0.3	27	28	16	19.6
Computer Programmers	25105	19	0.3	37	26	12	15.2
All Other Mathematical Scientists	25319	5	0.1	NA	-	-	NA
All Other Social Scientists	27199	3	*	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	35	0.5	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	87	1.3				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	33	0.4	10	36	30	19.6
Appraisers, Real Estate	43011	13	0.2	16	15	11	13.0

STAFFING PATTERNS
BANKING
(SIC 60)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Sales Agents, Securities, Commodities, and Financial Services	43014	32	0.4	7	34	30	19.6
All Other Sales Representatives and Salespersons, Service	43099	5	0.2	NA	-	-	NA
All Other Sales and Related Workers	49999	4	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	5,297	75.8				
First Line, Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	227	3.2	14	258	196	54.3
Tellers	53102	2,000	28.6	4	2,071	1,929	100.0
New Accounts Clerks	53105	434	6.2	9	473	395	97.8
Transit Clerks	53108	94	1.3	26	118	70	37.0
Loan Interviewers	5311[illegible]	76	1.1	22	93	59	39.1
Credit Checkers	53117	93	1.3	27	118	68	47.8
Loan and Credit Clerks	53121	458	6.6	12	511	405	89.1
Adjustment Clerks	53123	52	0.7	8	56	48	21.7
Statement Clerks	53126	220	3.1	26	276	164	58.7
Brokerage Clerks	53128	36	0.5	20	43	29	17.4
Bill and Account Collectors	53508	51	0.7	19	60	42	39.1
Secretaries	55100	183	2.6	14	209	157	73.9
Receptionists and Information Clerks	55305	60	0.9	18	71	49	43.5
Typists	55308	15	0.2	49	22	8	15.2
Typists, Word Processor	55311	32	0.5	23	39	25	28.3
Personnel Clerks	55314	19	0.3	36	26	12	23.9
File Clerks	55321	86	1.2	24	107	65	30.4
Bookkeeping, Accounting, and Auditing Clerks	55338	348	5.0	17	409	287	80.4
Payroll and Timekeeping Clerks	55341	18	0.3	40	25	11	23.9
General Office Clerks	55347	274	3.9	19	326	222	52.2
Computer Operators	56011	88	1.3	24	109	67	37.0
Peripheral EDP Equipment Operators	56014	16	0.2	49	24	8	13.0
Data Entry Keyers	56017	80	1.1	25	100	60	34.8
All other Office Machine Operators	56099	69	1.0	NA	-	-	NA
Switchboard Operators	57102	81	1.2	18	96	66	63.0
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	18	0.3	29	23	13	21.7
Messengers	57311	75	1.1	18	88	62	56.5

STAFFING PATTERNS
BANKING
(SIC 60)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	14	0.2	9	15	13	17.4
All Other Material Recording, Scheduling, and Distributing Workers	58099	1	*	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	79	1.1	NA	-	-	NA
SERVICES OCCUPATIONS	60000-69999	205	2.9				
Guards and Watch Guards	63047	14	0.2	14	16	12	19.6
Janitors and Cleaners	67005	148	2.1	20	178	118	56.5
All Other Cleaning and Building Service Workers, Except Private Households	67099	12	0.2	NA	-	-	NA
All Other Service Workers	69999	31	0.4	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4	0.1	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK

(SIC 61)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	53102	Tellers	397	21.8
2	53121	Loan and Credit Clerks	156	8.6
	13002	Financial Managers	156	8.6
4	55347	General Office Clerks	111	6.1
5	21108	Loan Officers and Counselors	84	4.6
6	51102	First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	77	4.2
7	53105	New Accounts Clerks	74	4.1
8	43014	Sales Agents, Securities, Commodities, and Financial Services	52	2.9
9	55338	Bookkeeping, Accounting, and Auditing Clerks	51	2.8
10	55100	Secretaries	48	2.6

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	13002	Financial Managers	90.9
2	53121	Loan and Credit Clerks	56.4
3	53102	Tellers	50.9
4	55100	Secretaries	36.4
5	55338	Bookkeeping, Accounting and Auditing Clerks	34.5

STAFFING PATTERNS
CREDIT AGENCIES OTHER THAN BANKS
(SIC 61)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL OCCUPATIONS		1,820	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	255	14.0				
Financial Managers	13002	156	8.6	7	167	145	90.9
Personnel, Training, and Labor Relations Managers	13005	10	0.5	43	14	6	5.5
Marketing, Advertising, and Public Relations Managers	13011	10	0.5	21	12	8	9.1
General Managers and Top Executives	19005	37	2.0	14	42	32	12.7
All Other Managers and Administrators	19999	42	2.3	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	220	12.1				
Credit Analysts	21105	50	2.7	36	68	32	29.1
Loan Officers and Counselors	21108	84	4.6	19	100	68	18.2
Accountants and Auditors	21114	30	1.6	15	34	26	25.5
All Other Financial Specialists	21199	18	1.0	NA	-	-	NA
All Other Management Support Workers	21999	13	0.7	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	25	1.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	95	5.2				
Sales Agents, Securities, Commodities, and Financial Services	43014	52	2.9	21	63	41	20.0
All Other Sales Representatives and Sales Persons-Service	43099	17	0.9	NA	-	-	NA
Cashiers	49023	26	1.4	45	38	14	10.9
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,212	66.6				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	77	4.2	9	84	70	20.0

STAFFING PATTERNS
CREDIT AGENCIES OTHER THAN BANKS
(SIC 61)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Tellers	53102	397	21.8	5	417	377	50.9
New Accounts Clerks	53105	74	4.1	12	83	65	30.9
Loan Interviewers	53111	23	1.3	44	33	13	5.5
Credit Checkers	53117	24	1.3	36	33	15	12.7
Loan and Credit Clerks	53121	156	8.6	11	173	139	56.4
Statement Clerks	53126	32	1.8	19	38	26	16.4
Bill and Account Collectors	53508	33	1.8	29	43	23	12.7
Secretaries	55100	48	2.6	13	54	42	36.4
Receptionists and Information Clerks	55305	31	1.7	13	35	27	21.8
Typists	55308	10	0.5	33	13	7	9.1
File Clerks	55321	31	1.7	17	36	26	14.5
Bookkeeping, Accounting and Auditing Clerks	55338	51	2.8	10	56	46	34.5
General Office Clerks	55347	111	6.1	20	133	89	29.1
Computer Operators	56011	14	0.8	33	19	9	9.1
Data Entry Keyers	56017	14	0.8	39	20	8	5.5
All Other Office Machine Operators	56099	13	0.7	NA	-	-	NA
Switchboard Operators	57102	11	0.6	14	13	9	14.5
All Other Material Recording, Scheduling, and Distributing Workers	58099	13	0.7	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	49	2.7	NA	-	-	NA
SERVICES OCCUPATIONS	60000-69999	31	1.7				
Janitors and Cleaners	67005	20	1.1	16	23	17	25.5
All Other Cleaning and Building Service Workers, Except Private Households	67099	4	0.2	NA	-	-	NA
All Other Service Workers	69999	7	0.4	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	7	0.4	NA	-	-	NA

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 63)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	53314	Insurance Policy Processing Clerks	566	7.7
2	25105	Computer Programmers	537	7.3
3	43002	Sales Agents and Placers, Insurance	451	6.2
4	55347	General Office Clerks	359	4.9
5	56017	Data Entry Keyers	323	4.4
6	21921	Claims Examiners, Property and Casualty Insurance	295	4.0
7	53302	Insurance Adjusters, Examiners, and Investigators	286	3.9
8	55321	File Clerks	285	3.9
9	51002	First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	259	3.5
10	55338	Bookkeeping, Accounting and Auditing Clerks	218	3.0

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	53302	Insurance Adjusters, Examiners, and Investigators	50.0
2	21102	Underwriters	41.6
	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41.6
	55305	Receptionists and Information Clerks	41.6
	55308	Typists	41.6
	55347	General Office Clerks	41.6

STAFFING PATTERNS
INSURANCE
SIC (63)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL OCCUPATIONS		7,310	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	509	7.0				
Financial Managers	13002	52	0.7	19	62	42	38.8
Personnel, Training, and Labor Relations Managers	13005	18	0.2	27	23	13	22.2
Marketing, Advertising, and Public Relations Managers	13011	41	0.6	11	46	36	22.2
Administrative Services Managers	13014	29	0.4	6	31	27	16.6
General Managers and Top Executives	19005	192	2.6	15	220	164	27.7
All Other Managers and Administrators	19999	177	2.5	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,996	27.3				
Underwriters	21102	212	2.9	13	240	184	41.6
Accountants and Auditors	21114	109	1.5	12	122	96	38.8
Budget Analysts	21117	11	0.2	6	12	10	8.3
All Other Financial Specialists	21199	32	0.4	NA	-	-	NA
Special Agents, Insurance	21505	60	0.8	36	82	38	36.1
Personnel, Training and Labor Relations Specialists	21511	33	0.5	18	39	27	16.6
Claims Examiners, Property and Casualty Insurance	21921	295	4.0	24	365	225	16.6
All other Management Support Workers	21999	68	0.9	NA	-	-	NA
Safety Engineers, Except Mining	22132	16	0.2	31	21	11	8.3
All other Engineering and Related Technicians and Technologists	22599	2	*	NA	-	-	NA
Systems Analysts, Electronic Data Processing	25102	171	2.3	10	188	154	22.2
Computer Programmers	25105	537	7.3	17	629	445	27.7
Computer Programmer Aides	25108	89	1.2	20	107	71	13.8
Operations and Systems Researchers and Analysts, Except Computer	25302	98	1.3	14	112	84	13.8
Statisticians	25312	14	0.2	19	17	11	11.1

STAFFING PATTERNS
INSURANCE
SIC (63)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Actuaries	25313	36	0.5	11	40	32	16.6
All Other Mathematical Scientists	25319	17	0.2	NA	-	-	NA
All Other Social Scientists	27199	6	0.1	NA	-	-	NA
All Other Legal Assistants and Technicians, Except Clerical	28399	4	0.1	NA	-	-	NA
All Other Health Professionals, Paraprofessionals and Technicians	32999	12	0.2	NA	-	-	NA
All Other Professionals, Paraprofessionals and Technicians	39999	174	2.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	575	7.9				
First Line Supervisors and Manager/Supervisors- Sales and Related Occupations	41002	98	1.3	19	117	79	41.6
Sales Agents and Placers, Insurance	43002	451	6.2	28	577	325	33.3
All other Sales Representatives and Salespersons-Service	43099	19	0.3	NA	-	-	NA
All Other Sales and Related Workers	49999	7	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	4,023	55.0				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	259	3.5	8	280	238	25.0
Insurance Adjusters, Examiners, and Investigators	53302	286	3.9	33	381	191	50.0
Insurance Appraisers, Auto Damage	53305	20	0.3	27	25	15	19.4
Insurance Claims Clerks	53311	117	1.6	18	138	96	38.8
Insurance Policy Processing Clerks	53314	566	7.7	13	641	491	38.8
All Other Secretaries	55199	347	4.7	NA	-	-	NA
Stenographers	55302	20	0.3	28	26	14	8.3
Receptionists and Information Clerks	55305	36	0.5	18	42	30	41.6
Typists	55308	198	2.7	10	218	178	41.6
Typists, Word Processor	55311	53	0.7	17	62	44	33.3
Personnel Clerks	55314	25	0.4	14	28	22	22.2

STAFFING PATTERNS
INSURANCE
SIC (63)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
File Clerks	55321	285	3.9	4	298	272	38.8
Statistical Clerks	55328	90	1.2	13	102	78	19.4
Bookkeeping, Accounting and Auditing Clerks	55338	218	3.0	6	231	205	36.1
Billing, Cost and Rate Clerks	55344	170	2.3	14	193	147	27.7
General Office Clerks	55347	359	4.9	5	378	340	41.6
Billing, Posting and Calculating Machine Operators	56002	44	0.6	39	61	27	8.3
Mail Machine Operators, Preparation and Handling	56008	21	0.3	20	25	17	13.8
Computer Operators	56011	75	1.0	12	84	66	19.4
Peripheral EDP Equipment Operators	56014	13	0.2	47	19	7	11.1
Data Entry Keyers	56017	323	4.4	19	385	261	25.0
All Other Office Machine Operators	56099	13	0.2	NA	-	-	NA
Switchboard Operators	57102	21	0.3	10	12	8	30.5
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	103	1.4	23	126	80	30.5
Messengers	57311	18	0.2	12	20	16	11.1
Stock Clerks, Stockroom, Warehouse or Storage Yard	58023	33	0.5	11	37	29	16.6
All Other Material Recording, Scheduling, and Distributing Workers	58099	25	0.4	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	285	3.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	120	1.7				
First Line Supervisors and Manager/Supervisors-Service	61000	14	0.2	37	19	9	8.3
Guards and Watch Guards	63047	22	0.3	14	25	19	8.3
All Other Protective Service Workers	63099	7	0.1	NA	-	-	NA
Janitors and Cleaners	67005	51	0.7	7	54	48	16.6
All Other Cleaning and Building Service Workers	67099	6	0.1	NA	-	-	NA
All Other Service Workers	69999	20	0.3	NA	-	-	NA

STAFFING PATTERNS
INSURANCE
SIC (63)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	3	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	84	1.1				
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	7	0.1	NA	-	-	NA
Maintenance Repairers, General Utility	85132	19	0.3	22	23	15	11.1
All Other Mechanics, Installers and Repairers	85999	3	*	NA	-	-	NA
All Other Construction and Extractive Workers, Except Helpers	87999	11	0.1	NA	-	-	NA
Job Printers	89705	20	0.3	16	23	17	13.8
All Other Precision Workers	89999	24	0.3	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 64)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	43002	Sales Agents and Placers, Insurance	562	24.3
2	53314	Insurance Policy Processing Clerks	459	19.8
3	21102	Underwriters	196	8.5
4	55338	Bookkeeping, Accounting and Auditing Clerks	149	6.4
5	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	116	5.0
6	55347	General Office Clerks	99	4.3
7	53302	Insurance Adjusters, Examiners, and Investigators	98	4.2
8	53311	Insurance Claims Clerks	97	4.2
9	13002	Financial Managers	90	3.9
10	55305	Receptionists and Information Clerks	55	2.4

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	43002	Sales Agents and Placers, Insurance	81.0
2	53314	Insurance Policy Processing Clerks	62.0
3	55338	Bookkeeping, Accounting and Auditing Clerks	57.0
4	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	38.0
5	53311	Insurance Claims Clerks	37.0

STAFFING PATTERNS
INSURANCE AGENTS, BROKERS AND SERVICE
(SIC 64)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL OCCUPATIONS		2,314	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	119	5.1				
Financial Managers	13002	90	3.9	13	102	78	36.0
All Other Managers and Administrators	19999	29	1.2	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	249	-10.8				
Underwriters	21102	196	8.5	15	225	167	26.0
All Other Financial Specialists	21199	9	0.4	NA	-	-	NA
Special Agents, Insurance	21505	22	1.0	18	26	18	7.0
Claims Examiners, Property and Casualty Insurance	21921	12	0.5	22	15	9	4.0
All Other Management Support Workers	21999	9	0.4	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	1	*	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	686	29.6				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	116	5.0	11	129	103	38.0
Sales Agents and Placers, Insurance	43002	562	24.3	5	590	534	81.0
All Other Sales Representatives and Salespersons-Service	43099	7	0.3	NA	-	-	NA
All Other Sales and Related Workers	49999	1	*	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,231	53.2				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	16	0.7	16	18	14	3.0

STAFFING PATTERNS
INSURANCE AGENTS, BROKERS AND SERVICE
(SIC 64)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Insurance Adjusters, Examiners, and Investigators	53302	98	4.2	22	120	76	12.0
Insurance Claims Clerks	53111	97	4.2	9	106	88	37.0
Insurance Policy Processing Clerks	53314	459	19.8	8	495	423	62.0
All Other Secretaries	55199	108	4.7	NA	-	-	NA
Receptionists and Information Clerks	55305	55	2.4	13	62	48	27.0
Typists	55308	26	1.1	29	34	18	9.0
Typists, Word Processor	55311	31	1.3	21	38	24	12.0
File Clerks	55321	33	1.4	19	39	27	15.0
Bookkeeping, Accounting and Auditing Clerks	55338	149	6.4	7	159	139	57.0
General Office Clerks	55347	99	4.3	18	117	81	20.0
Billing, Posting and Calculating Machine Operators	56002	14	0.6	35	19	9	5.0
All Other Office Machine Operators	56099	3	0.1	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	43	1.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	25	1.1				
Janitors and Cleaners	67005	23	1.0	28	30	16	7.0
All Other Cleaning and Building Service Workers	67099	2	0.1	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	4	0.2	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK
(SIC 65)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	85132	Maintenance Repairers, General Utility	474	14.9
2	43008	Sales Agents, Real Estate	368	11.6
3	79014	Gardeners and Groundskeepers, Except Farm	264	8.3
4	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	202	6.3
5	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	164	5.2
6	55338	Bookkeeping, Accounting and Auditing Clerks	144	4.5
7	43005	Brokers, Real Estate	124	3.9
8	55347	General Office Clerks	121	3.8
9	13002	Financial Managers	117	3.7
10	87102	Carpenters	85	2.7

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	85132	Maintenance Repairers, General Utility	49.0
2	55338	Bookkeeping, Accounting and Auditing Clerks	33.6
3	13002	Financial Managers	30.1
4	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	29.4
5	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	25.9

STAFFING PATTERNS

REAL ESTATE
(SIC 65)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL OCCUPATIONS		3,181	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	243	7.6				
Financial Managers	13002	117	3.7	12	131	103	30.1
Property and Real Estate Managers and Administrators	15011	46	1.4	22	56	36	7.7
All Other Managers and Administrators	19999	80	2.5	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	90	2.8				
Accountants and Auditors	21114	30	0.9	26	38	22	9.1
All Other Management Support Workers	21199	5	0.2	NA	-	-	NA
Title Examiners and Abstractors	28311	46	1.4	19	55	37	2.8
All Other Legal Assistants and Technicians, Except Clerical	28399	6	0.2	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	3	0.1	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	749	23.6				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	164	5.2	14	187	141	29.4
Brokers, Real Estate	43005	124	3.9	17	145	103	18.2
Sales Agents, Real Estate	43008	368	11.6	16	427	309	16.8
All Other Sales Representatives and Salespersons, Service	43099	88	2.8	NA	-	-	NA
All Other Sales and Related Workers	49999	5	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	760	23.9				
Real Estate Clerks	53914	59	1.9	19	70	48	11.9
All Other Secretaries	55199	235	7.4	NA	-	-	NA

STAFFING PATTERNS
REAL ESTATE
(SIC 65)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Receptionists and Information Clerks	55305	71	2.2	19	85	57	18.2
Typists, Word Processor	55311	18	0.6	30	23	13	4.9
Bookkeeping, Accounting and Auditing Clerks	55338	144	4.5	12	161	127	33.6
Payroll and Timekeeping Clerks	55341	19	0.6	26	24	14	6.3
General Office Clerks	55347	121	3.8	14	137	105	23.1
All Other Office Machine Operators	56099	9	0.3	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	11	0.3	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	73	2.3	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	383	12.0				
All Other Protective Service Workers	63099	31	1.0	NA	-	-	NA
Food and Beverage Preparation and Service Occupations	65000	31	1.0	25	39	23	2.1
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	202	6.3	15	232	172	25.9
All Other Cleaning and Building Service Workers, Except Private Households	67099	67	2.1	NA	-	-	NA
All Other Service Workers	69999	52	1.6	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	264	8.3				
GARDENERS AND GROUNDSKEEPERS, EXCEPT FARM	79014	264	8.3	17	309	219	24.5
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	692	21.8				

STAFFING PATTERNS
REAL ESTATE
(SIC 65)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTINC
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	11	0.3	NA	-	-	NA
Maintenance Repairers, General Utility	85132	474	14.9	9	517	431	49.0
Carpenters	87102	85	2.7	28	103	62	11.9
Printers and Paperhangers	87402	64	2.0	32	85	43	9.1
All Other Construction and Extractive Workers, Except Helpers	87999	18	0.6	NA	-	-	NA
All Other Transportation and Material Moving Equipment Operators	97989	13	0.4	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	27	0.9	NA	-	-	NA

SERVICES
(SIC 70 - 89)
INDUSTRIES 806 AND 82 EXCLUDED

The services division is the largest and most diverse of the three divisions surveyed. Establishments in the services division provide personal, business and professional services. Personal services include motels, laundries and barber shops while business services include advertising agencies, credit reporting agencies, management consulting agencies, repair firms and detective agencies (SIC 70 - 79). Professional services include medical and other health services, legal services, museums, art galleries and botanical and zoological gardens. Also included are nonprofit membership organizations, engineering and architectural services, and consulting, accounting, auditing and bookkeeping services (SIC 80 - 89).

In the second quarter of 1984, there were approximately 59,223 workers employed in this division. The service occupations was the dominant occupational category with 17,646 workers or 29.8 percent of the total division employment. The next two largest categories were professional, paraprofessional and technical, and clerical with 27.8 and 20.7 percent of the total division employment respectively. Within the service division, the dominant occupation was janitors and cleaners with 2,425 workers or 4.1 percent of the total division employment. Nursing aides, orderlies and attendants combined with registered nurses accounted for 4,354 workers or 7.4 percent of the total division employment.

More than one out of every two New Hampshire workers in the selected non-manufacturing division are employed in the service industries. Service employment increased from 1979 to 1984 by 34.0 percent compared to 20.5 and 23.6 percent for the mining and construction and finance, insurance and real estate divisions respectively. (See appendix). Within the service industry, business services and social services showed employment growth rates of 75.9 and 60.6 percent respectively.

Our sample consisted of 1,626 units representing an employment of 39,080. Usable responses were received from 1,162 or 71.5 percent of the units sampled. The reported employment was 28,388 or 72.6 percent of the employment in the sample.

THE SEVENTEEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS IN SERVICES

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL-JUNE 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	2,425	4.1
2	66008	Nursing Aides, Orderlies and Attendants	2,260	3.8
3	32502	Registered Nurses	2,094	3.5
4	65008	Waiters and Waitresses	1,595	2.7
5	67002	Maids and Housekeeping Cleaners	1,575	2.7
6	55338	Bookkeeping, Accounting and Auditing Clerks	1,379	2.3
7	55100	Secretaries	1,358	2.3
8	68005	Hairdressers, Hairstylists and Cosmetologists	1,132	1.9
9	55347	General Office Clerks	1,131	1.9
10	65005	Bartenders	1,064	1.8
11	55102	Legal Secretaries	1,032	1.7
12	28108	Lawyers	978	1.7
13	32102	Physicians and Surgeons	956	1.6
14	55305	Receptionists and Information Clerks	931	1.6
	63047	Guards and Watch Guards	931	1.6
16	13002	Financial Managers	841	1.4
17	65038	Food Preparation Workers	833	1.4

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS		59,223	100.0
MANAGERS AND ADMINISTRATORS	10000-19999	3,271	5.5
Financial Managers	13002	841	1.4
Personnel, Training, and Labor Relations Managers	13005	92	0.2
Purchasing Managers	13008	27	*
Marketing, Advertising, and Public Relations Managers	13011	350	0.6
Administrative Services Managers	13014	158	0.3
Education Administrators	15005	31	0.1
Medicine and Health Services Managers	15008	318	0.5
Food and Lodging Managers	15026	456	0.8
General Managers and Top Executives	19005	665	1.1
All Other Managers and Administrators	19999	333	0.5
PROFESSIONAL, PARAPROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	16,437	27.8
Tax Preparers	21111	53	0.1
Accountants and Auditors	21114	746	1.3
Budget Analysts	21117	13	0.1
All Other Financial Specialists	21199	17	0.1
Purchasing Agents, Except Wholesale, Retail and Farm Products	21308	51	0.1
Employment Interviewers, Private Or Public Employment Service	21508	172	0.3
Personnel, Training, and Labor Relations Specialists	21511	133	0.2
Cost Estimators	21902	34	0.1
Management Analysts	21905	57	0.1
Compliance Officers and Enforcement Inspectors, Except Construction	21911	10	*
All Other Management Support Workers	21999	293	0.5
Metallurgists and Metallurgical, Ceramic and Materials Engineers	22105	10	*
Civil Engineers, Including Traffic	22121	139	0.2
Electrical and Electronic Engineers	22126	200	0.3
Industrial Engineers, Except Safety	22128	48	0.1
Mechanical Engineers	22135	108	0.2

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Engineers	22199	157	0.3
Architects, Except Landscape and Marine	22302	154	0.3
Landscape Architects	22308	32	0.1
Surveying and Mapping Scientists	22311	136	0.2
Engineering and Related Technicians and Technologists	22500	65	0.1
Civil Engineering Technicians and Technologists	22502	112	0.2
Electrical and Electronic Engineering Technicians and Technologists	22505	237	0.4
Industrial Engineering Technicians and Technologists	22508	10	*
Mechanical Engineering Technicians and Technologists	22511	71	0.1
Drafters	22514	540	0.9
Surveying and Mapping Technicians and Technologists	22521	202	0.3
All Other Engineering and Related Technicians and Technologists	22599	26	*
Chemists, Except Biochemists	24105	77	0.1
Geologists, Geophysicists and Oceanographers	24111	33	0.1
All Other Physical Scientists	24199	20	*
Life Scientists	24300	13	*
Biological Scientists	24308	104	0.2
All Other Life Scientists	24399	14	*
Chemical Technicians and Technologists, Except Health	24505	22	*
All Other Physical and Life Science Technicians and Technologists	24599	11	*
Systems Analysts, Electronic Data Processing	25102	201	0.3
Computer Programmers	25105	478	0.8
Computer Programmer Aides	25108	53	0.1
All Other Mathematical Scientists	25319	9	*
Psychologists	27108	177	0.3
All Other Social Scientists	27199	18	*
Social Workers, Medical and Psychiatric	27302	422	0.7
Social Workers, Except Medical and Psychiatric	27305	227	0.4
Social Service Technicians	27308	406	0.7
Recreational Workers	27311	192	0.3
Clergy	27502	11	*
Lawyers	28108	978	1.7
Law Clerks	28302	55	0.1
Paralegal Personnel	28305	167	0.3
Title Searchers	28308	18	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
All Other Legal Assistants and Technicians, Except Clerical	28399	7	*
Lecturers	31111	60	0.1
Teachers, Preschool and Kindergarten	31302	534	1.0
Teachers, Elementary School	31305	49	0.1
Teachers and Instructors, Vocational Education and Training	31314	192	0.3
Instructors, Nonvocational Education	31317	281	0.5
Instructors and Coaches, Sports and Physical Training	31321	548	1.0
All Other Teachers and Instructors	31399	172	0.3
Librarians, Professional	31502	20	*
Curators, Archivists, Museum Technicians and Restorers	31511	17	*
Vocational and Educational Counselors	31514	32	0.1
Instructional Coordinators	31517	74	0.1
Physicians and Surgeons	32102	956	1.6
Dentists	32105	278	0.5
Optometrists	32108	56	0.1
All Other Health Diagnosing and Treating Practitioners	32199	7	*
Occupational Therapists	32305	68	0.1
Physical Therapists	32308	99	0.2
Speech Pathologists and Audiologists	32314	15	*
Recreational Therapists	32317	82	0.1
All Other Therapists	32399	49	0.1
Registered Nurses	32502	2,094	3.5
Licensed Practical Nurses	32505	796	1.3
Physicians Assistants	32511	203	0.3
Opticians, Dispensing and Measuring	32514	97	0.2
Dietitians and Nutritionists	32521	63	0.1
Dietetic Technicians	32523	57	0.1
Medical and Clinical Laboratory Technologists	32902	147	0.2
Medical and Clinical Laboratory Technicians	32905	38	0.1
Dental Hygienists	32908	510	0.9
Medical Records Technicians and Technologists	32911	41	0.1
Radiologic Technologists	32917	20	*
Radiologic Technicians	32921	61	0.1
All Other Health Professionals, Paraprofessionals and Technicians	32999	239	0.4

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Writers and Editors	34002	115	0.2
Technical Writers	34005	27	*
Public Relations Specialists and Publicity Writers	34008	97	0.2
Announcers, Radio and Television	34017	14	*
Photographers	34023	47	0.1
Artists and Related Workers	34035	76	0.1
Designers, Except Interior Designers	34038	106	0.2
Musicians, Instrumental	34051	93	0.2
Dancers and Choreographers	34053	15	*
Producers, Directors, Actors, and Other Entertainers	34056	37	0.1
Athletes, Coaches, Umpires, and Related Workers	34058	42	0.1
Funeral Directors and Morticians	39011	114	0.2
Embalmers	39014	17	*
All Other Professional, Paraprofessional and Technical Workers	39999	143	0.2
SALES OCCUPATIONS	40000-49999	2,171	3.6
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	342	0.6
Sales Agents, Selected Business Services	43017	167	0.3
Sales Agents, Advertising	43023	37	0.1
All Other Sales Representatives and Salespersons, Service	43099	25	*
Sales Representatives, Scientific and Related Products and Services, Except Retail	49005	63	0.1
Sales Representatives, Except Scientific and Related Products or Services and Retail	49008	83	0.1
Salespersons, Retail	49011	77	0.1
Salespersons, Parts	49014	63	0.1
Counter and Rental Clerks	49017	441	0.7
Cashiers	49023	708	1.2
Demonstrators, Promoters, and Models	49032	10	*
All Other Sales and Related Workers	49999	155	0.3

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	12,254	20.7
First Line Supervisors and Managers/Supervisors-Clerical and Administrative Support Occupations	51002	433	0.7
Credit Checkers	53117	22	*
Welfare Eligibility Workers and Interviewers	53502	41	0.1
Bill and Account Collectors	53508	62	0.1
Travel Clerks	53802	25	*
Hotel Desk Clerks	53808	441	0.7
Teacher Aides and Educational Assistants, Clerical	53905	379	0.6
Secretaries	55100	1,358	2.3
Legal Secretaries	55102	1,032	1.7
Medical Secretaries	55105	688	1.2
All Other Secretaries	55199	517	0.9
Stenographers	55302	40	0.1
Receptionists and Information Clerks	55305	931	1.6
Typists	55308	501	0.8
Typists, Word Processor	55311	222	0.4
Personnel Clerks	55314	20	*
File Clerks	55321	229	0.4
Order Clerks	55323	128	0.2
Interviewing Clerks, Except Personnel and Social Welfare	55332	170	0.3
Bookkeeping, Accounting, and Auditing Clerks	55338	1,379	2.3
Payroll and Timekeeping Clerks	55341	189	0.3
Billing, Cost and Rate Clerks	55344	112	0.2
General Office Clerks	55347	1,131	1.9
Billing, Posting, and Calculating Machine Operators	56002	69	0.1
Duplicating Machine Operators	56005	20	*
Mail Machine Operators, Preparation and Handling	56008	93	0.2
Computer Operators	56011	175	0.3
Peripheral EDP Equipment Operators	56014	45	0.1
Data Entry Keyers, Except Composing	56017	411	0.7
All Other Office Machine Operators	56099	56	0.1
Switchboard Operators	57102	290	0.5
Mail Clerks, Except Mail Machine Operators and Postal Service	57302	62	0.1
Messengers	57311	31	0.1

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Dispatchers, Except Police, Fire, and Ambulance	58005	21	*
Production, Planning, and Expediting Clerks	58008	44	0.1
Stock Clerks-Stockroom, Warehouse or Storage Yard	58023	92	0.2
Traffic, Shipping, and Receiving Clerks	58028	46	0.1
All Other Material Recording, Scheduling, and Distributing Workers	58099	17	*
All Other Clerical and Administrative Support Workers	59999	732	1.2
SERVICE OCCUPATIONS	60000-69999	17,646	29.8
First Line Supervisors and Manager/Supervisors-Service	61000	82	0.1
Housekeepers	61008	636	1.1
All Other Supervisors and Manager/Supervisors	61099	121	0.1
Detectives and Investigators, Except Public	63035	58	0.1
Guards and Watch Guards	63047	931	1.6
All Other Protective Service Workers	63099	19	*
Food and Beverage Preparation and Service Occupations	65000	135	0.2
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop	65002	171	0.3
Bartenders	65005	1,064	1.8
Waiters and Waitresses	65008	1,595	2.7
Food Servers, Outside	65011	118	0.2
Dining Room and Cafeteria Attendants and Bartender Helpers	65014	336	0.6
Counter Attendants-Lunchroom, Coffee Shop or Cafeteria	65017	50	0.1
Bakers, Bread and Pastry	65021	14	*
Cooks, Restaurant	65026	456	0.8
Cooks, Institution or Cafeteria	65028	345	0.6
Cooks, Specialty-Fast Food	65032	95	0.2
Cooks, Short Order	65035	24	*
Food Preparation Workers	65038	833	1.4
Combined Food Preparation and Service Workers	65041	17	*
All Other Food Service Workers	65099	255	0.4
Dental Assistants	66002	608	1.0
Medical Assistants	66005	144	0.2

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Nursing Aides, Orderlies and Attendants	66008	2,260	3.8
Home Health Aides	66011	231	0.4
Physical and Corrective Therapy Assistants and Aides	66017	58	0.1
Occupational Therapy Assistants and Aides	66021	15	*
Ambulance Drivers and Attendants, Except Emergency Medical Technicians	66023	14	*
All Other Health Service Workers	66099	100	0.2
Maids and Housekeeping Cleaners	67002	1,575	2.7
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	2,425	4.1
All Other Cleaning and Building Service Workers, Except Private Households	67099	75	0.1
Barbers	68002	62	0.1
Hairdressers, Hairstylists, and Cosmetologists	68005	1,132	1.9
Manicurists	68008	10	*
Shampooers	68011	16	*
Amusement and Recreation Attendants	68014	343	0.6
Guides	68017	16	*
Ushers, Lobby Attendants, and Ticket Takers	68021	303	0.5
Baggage Porters and Bellhops	68023	58	0.1
Social Welfare Service Aides	68035	148	0.2
Child Care Workers	68038	363	0.6
Funeral Attendants	68041	17	*
All Other Service Workers	69999	318	0.5
AGRICULTURAL, FORESTRY, FISHING AND RELATED WORKERS	70000-79999	559	1.0
Gardeners and Groundskeepers, Except Farm	79014	521	0.9
Animal Caretakers, Except Farm	79017	28	*
All Other Agricultural, Forestry, Fishing, and Related Workers	79999	10	*
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	6,885	11.6
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	81002	297	0.5

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
First Line, Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers	81005	14	*
All Other First Line Supervisors and Manager/Supervisors-Production, Maintenance and Related Occupations	81099	70	0.1
Precision Inspectors, Testers, and Graders	83002	67	0.1
Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers	83005	33	0.1
All Other Inspectors, Testers, and Related Occupations	83099	92	0.2
Maintenance Repairers, General Utility	85132	730	1.2
Automotive Mechanics	85302	544	0.9
Automotive Body and Related Repairers	85305	507	0.9
Bus and Truck Mechanics, and Diesel Engine Specialists	85311	95	0.2
Small Engine Specialists	85328	13	*
Radio Mechanics	85514	13	*
Data Processing Equipment Repairers	85705	35	0.1
Electronic Home Entertainment Equipment Repairers	85708	22	*
Electric Motor, Transformer, and Related Repairers	85714	83	0.1
Electronics Repairers, Commercial and Industrial Equipment	85717	34	0.1
All Other Electrical and Electronic Equipment Mechanics, Installers and Repairers	85799	34	0.1
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902	33	0.1
Office Machine and Cash Register Servicers	85926	25	*
Coin and Vending Machine Servicers and Repairers	85947	23	*
Tire Repairers and Changers	85953	23	*
Menders-Garments, Linens, and Related	85956	30	0.1
All Other Mechanics, Installers, and Repairers	85999	76	0.1
Carpenters	8710[illegible]	77	0.1
Electricians	87202	61	0.1
Painters and Paperhangers	87402	22	*
Plumbers, Pipefitters and Steamfitters	87502	14	*

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Septic Tank Servicers and Sewer Pipe Cleaners	87511	33	0.1
All Other Construction and Extractive Workers, Except Helpers	87999	6	*
Machinists	89108	73	0.1
Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	89111	22	*
Boilermakers	89135	24	*
All Other Precision Metal Workers	89199	10	*
All Other Precision Wood Workers	89399	9	*
Custom Tailors and Sewers	89505	26	*
Upholsterers	89508	48	0.1
Spotters, Dry Cleaning	89514	45	0.1
Pressers, Delicate Fabrics	89517	70	0.1
Precision Photographic Process Workers	89914	14	*
Precision Dental Laboratory Technicians	89921	141	0.2
All Other Precision Workers	89999	28	*
Printing Press Machine Operators and Tenders	92543	61	0.1
Sewing Machine Operators, Garment	92717	14	*
Sewing Machine Operators, Non-Garment	92721	17	*
Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	92726	370	0.6
Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	92728	219	0.4
Motion Picture Projectionists	92905	64	0.1
Photographic Processing Machine Operators and Tenders	92908	105	0.2
Painters, Transportation Equipment	92947	34	0.1
Packaging and Filling Machine Operators and Tenders	92974	15	*
All Other Machine Operators and Tenders	92998	114	0.2
Welders and Cutters	93914	68	0.1
Solderers and Brazers	93917	58	0.1
Pressers, Hand	93921	15	*
Engraving and Printing Workers, Hand	93951	11	*
All Other Hand Workers	93999	152	0.3
Truck Drivers, Light-Including Delivery and Route Workers	97105	226	0.4
Bus Drivers	97108	87	0.1

STAFFING PATTERNS
SERVICES
(SIC 70-79, 80-89)
INDUSTRIES 806 AND 82 EXCLUDED

OCCUPATIONAL TITLE	OES CODE	SECOND QUARTER 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
Bus Drivers, School	97111	24	*
Driver/Sales Workers	97117	245	0.4
All Other Motor Vehicle Operators	97199	150	0.3
Service Station Attendants	97805	90	0.2
Parking Lot Attendants	97808	16	*
All Other Transportation and Related Workers	97899	2	*
Industrial Truck and Tractor Operators	97947	84	0.1
All Other Transportation and Material Moving Equipment Operators	97989	57	0.1
All Other Material Moving Equipment Operators	97999	2	*
Mechanic and Repairer Helpers	98102	50	0.1
Machine Feeders and Offbearers	98502	176	0.3
Freight, Stock, and Material Movers, Hand	98700	189	0.3
Hand Packers and Packagers	98902	54	0.1
Vehicle Washers and Equipment Cleaners	98905	133	0.2
All Other Helpers, Laborers, and Material Movers, Hand	98999	367	0.6

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 70)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	65008	Waiters and Waitresses	1,273	19.3
2	67002	Maids and Housekeeping Cleaners	997	15.1
3	53808	Hotel Desk Clerks	441	6.7
4	61008	Housekeepers	412	6.2
5	65026	Cooks, Restaurant	393	5.9
6	65005	Bartenders	283	4.3
7	15026	Food Service and Lodging Managers	274	4.2
8	65014	Dining Room and Cafeteria Attendants and Bartender Helpers	216	3.3
9	65038	Food Preparation Workers	215	3.2
	79014	Gardeners and Groundskeepers, Except Farm	215	3.2

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	15026	Food Service and Lodging Managers	71.2
2	53808	Hotel Desk Clerks	68.2
3	67002	Maids and Housekeeping Cleaners	66.6
4	61008	Housekeepers	65.2
5	65008	Waiters and Waitresses	63.6

STAFFING PATTERNS
HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES
(SIC 70)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		6,602	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	388	5.9				
Financial Managers	13002	49	0.7	31	64	34	24.2
Marketing, Advertising, and Public Relations Managers	13011	11	0.2	18	13	9	10.6
Food Service and Lodging Managers	15026	274	4.2	15	316	232	71.2
General Managers and Top Executives	19005	24	0.4	19	29	19	16.6
All Other Managers and Administrators	19999	30	0.4	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	138	2.1				
All Other Financial Specialists	21199	63	0.9	NA	-	-	NA
All Other Management Support Workers	21999	13	0.2	NA	-	-	NA
Recreation Workers	27311	45	0.7	7	48	42	9.1
All Other Teachers and Instructors	31399	5	0.1	NA	-	-	NA
All other Health Professionals, Paraprofessionals and Technicians	32999	1	*	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	11	0.2	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	223	3.4				
Sales Agents, Selected Business Services	43017	35	0.5	14	40	30	18.2
All Other Sales Representatives and Salespersons-Service	43099	10	0.2	NA	-	-	NA
Cashiers	49023	119	1.8	17	139	99	31.8
All Other Sales and Related Workers	49999	59	0.9	NA	-	-	NA

STAFFING PATTERNS
HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES
(SIC 70)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	771	11.7				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	12	0.2	20	14	10	10.6
Hotel Desk Clerks	53808	441	6.7	14	502	380	68.2
Secretaries	55100	45	0.7	25	56	34	28.8
Receptionists and Information Clerks	55305	21	0.3	35	28	14	12.1
Bookkeeping, Accounting and Auditing Clerks	55338	65	0.9	23	80	50	33.3
Payroll and Timekeeping Clerks	55341	21	0.3	34	28	14	13.6
Switchboard Operators	57102	13	0.2	21	16	10	6.1
All Other Material Recording, Scheduling, and Distributing Workers	58099	31	0.5	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	122	1.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	4,513	68.3				
Housekeepers	61008	412	6.2	27	522	302	65.2
All Other Service Supervisors and Manager/Supervisors	61099	4	0.1	NA	-	-	NA
All Other Protective Service Workers	63099	39	0.6	NA	-	-	NA
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop	65002	163	2.5	10	180	146	43.9
Bartenders	65005	283	4.3	9	307	259	56.1
Waiters and Waitresses	65008	1,273	19.3	5	1,342	1,204	63.6
Food Servers, Outside	65011	51	0.8	22	62	40	4.5
Dining Room and Cafeteria Attendants and Bartender Helpers	65014	216	3.3	17	253	179	31.8
Bakers, Bread and Pastry	65021	11	0.2	28	14	8	10.6
Cooks, Restaurant	65026	393	5.9	7	421	365	60.6
Food Preparation Workers	65038	215	3.2	15	248	182	39.4
All Other Food Service Workers	65099	268	4.0	NA	-	-	NA
Maids and Housekeeping Cleaners	67002	997	15.1	12	1,116	878	66.6
Janitors and Cleaners	67005	98	1.5	19	116	80	31.8

STAFFING PATTERNS
HOTELS, ROOMING HOUSES, CAMPS, AND OTHER LODGING PLACES
(SIC 70)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Cleaning and Building Service Workers	67099	24	0.3	NA	-	-	NA
Baggage Porters and Bellhops	68023	58	0.9	25	72	44	12.1
All Other Service Workers	69999	8	0.1	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	215	3.2				
GARDENERS AND GROUNDS-KEEPERS, EXCEPT FARM	79014	215	3.2	18	255	175	33.3
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	354	5.4				
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance, and Related	81099	3	*	NA	-	-	NA
Maintenance Repairers, General Utility	85132	208	3.2	13	234	182	59.1
All Other Mechanics, Installers and Repairers	85999	14	0.2	NA	-	-	NA
All Other Construction and Extractive Workers, Except Helpers	87999	17	0.3	NA	-	-	NA
Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	92726	102	1.5	23	125	79	22.7
All Other Transportation and Material Moving Equipment Operators	97989	10	0.2	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 72)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	68005	Hairdressers, Hairstylists, and Cosmetologists	1,120	26.1
2	49017	Counter and Rental Clerks	285	6.7
3	92728	Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	212	4.9
4	92726	Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	126	2.9
5	39011	Funeral Directors and Morticians	114	2.7
6	97117	Driver/Sales Workers	88	2.1
7	67005	Janitors and Cleaners	75	1.8
	55100	Secretaries	75	1.8
9	13002	Financial Managers	74	1.7
	61000	First Line Supervisors and Manager/Supervisors-Service	74	1.7

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	68005	Hairdressers, Hairstylists, and Cosmetologists	46.9
2	49017	Counter and Rental Clerks	17.7
3	13002	Financial Managers	16.9
	92726	Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	16.9
	92728	Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	16.9

STAFFING PATTERNS
PERSONAL SERVICES
(SIC 72)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
TOTAL ALL OCCUPATIONS		4,287	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	140	3.3				
Financial Managers	13002	74	1.7	21	89	59	16.9
General Managers and Top Executives	19005	40	0.9	22	49	31	7.7
All Other Managers and Administrators	19999	26	0.7	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	587	13.7				
All Other Financial Specialists	21199	13	0.3	NA	-	-	NA
All Other Teachers and Instructors	31399	310	7.2	NA	-	-	NA
All Other Health Professionals, Paraprofessionals, and Technicians	32999	94	2.2	NA	-	-	NA
Photographers	34023	31	0.7	32	41	21	3.1
Funeral Directors and Morticians	39011	114	2.7	11	126	102	10.8
All Other Professionals, Paraprofessionals and Technicians	39999	8	02	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	407	9.5				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	15	0.3	47	22	8	2.3
Counter and Rental Clerks	49017	285	6.7	15	327	243	17.7
All Other Sales and Related Workers	49999	107	2.5	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	522	12.2				
Secretaries	55100	75	1.8	20	90	60	15.4
Receptionists and Information Clerks	55305	48	1.1	25	60	36	12.3
Bookkeeping, Accounting, and Auditing Clerks	55338	64	1.5	20	77	51	16.2
General Office Clerks	55347	20	0.5	31	26	14	6.2

STAFFING PATTERNS
PERSONAL SERVICES
(SIC 72)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Office Machine Operators	56099	2	*	NA	-	-	NA
Stock Clerks-Stockroom, or Warehouse or Storage Yard	58023	19	0.4	19	23	15	5.4
All Other Material Recording, Scheduling, and Distributing Workers	58099	2	*	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	292	6.8	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	1,562	36.4				
First Line Supervisors and Manager/Supervisors-Service	61000	74	1.7	26	93	55	11.5
Janitors and Cleaners	67005	75	1.8	25	94	56	13.1
Hairdressers, Hairstylists, and Cosmetologists	68005	1,120	26.1	6	1,183	1,057	46.9
All Other Service Workers	69999	293	6.8	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	2	*	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,067	24.9				
All Other First Line Supervisors and Manager/Supervisors-Production,Construction, Maintenance and Related	81099	5	0.1	NA	-	-	NA
All Other Inspectors, Testers, and Related Occupations	83099	19	0.4	NA	-	-	NA
Maintenance Repairers, General Utility	85132	34	0.8	24	42	26	7.7
Menders	85956	29	0.7	29	37	21	6.9
All Other Mechanics, Installers and Repairers	85999	14	0.3	NA	-	-	NA
All Other Construction and Extractive Workers, Except Helpers	87999	2	*	NA	-	-	NA

STAFFING PATTERNS
PERSONAL SERVICES
(SIC 72)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Spotters, Dry Cleaning	89514	45	1.0	21	54	36	13.1
Pressers	89517	70	1.6	22	86	24	10.8
All Other Precision Textile, Apparel and Furnishings Workers	89599	33	0.9	NA	-	-	NA
Sewing Machine Operators	92717	14	0.3	33	19	9	2.3
Laundry and Dry Cleaning Machine Operators and Tenders, Except Pressing	92726	126	2.9	17	147	105	16.9
Pressing Machine Operators and Tenders-Textile, Garment, and Related Materials	92728	212	4.9	23	260	164	16.9
All Other Machine Operators and Tenders	92998	18	0.4	NA	-	-	NA
All Other Hand Workers	93999	72	1.7	NA	-	-	NA
Truck Drivers, Light-Include Delivery and Route Workers	97105	39	0.9	28	50	28	6.9
Driver/Sales Workers	97117	88	2.1	25	110	66	6.2
All Other Transportation, and Material Moving Equipment Operators	97989	11	0.3	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	236	5.5	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 75)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	85302	Automotive Mechanics	513	19.9
2	85305	Automotive Body and Related Repairers	507	19.6
3	55338	Bookkeeping, Accounting and Auditing Clerks	163	6.3
4	81002	First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	146	5.6
5	98905	Vehicle Washers and Cleaners	133	5.1
6	97805	Service Station Attendants	90	3.5
	85311	Diesel Engine Specialists	90	3.5
8	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	87	3.4
9	55100	Secretaries	73	2.8
	13002	Financial Managers	73	2.8

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	85302	Automotive Mechanics	51.8
2	55338	Bookkeeping, Accounting and Auditing Clerks	40.9
3	85305	Automotive Body and Related Repairers	40.0
4	81002	First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	37.3
5	41002	First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	23.6

STAFFING PATTERNS
AUTOMOTIVE REPAIR, SERVICES, AND GARAGES
(SIC 75)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,584	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	95	3.7				
Financial Managers	13002	73	2.8	23	90	56	21.8
All Other Managers and Administrators	19999	22	0.9	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	28	1.1				
Accountants and Auditors	21114	20	0.8	29	26	14	8.2
All Other Financial Specialists	21199	2	0.1	NA	-	-	NA
All Other Management Support Workers	21999	6	0.2	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	256	9.9				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	87	3.4	17	102	72	23.6
Salespersons, Parts	49014	63	2.4	23	78	48	16.4
Counter and Rental Clerks	49017	68	2.6	28	87	49	11.8
Cashiers	49023	17	0.7	28	22	12	4.5
All Other Sales and Related Workers	49999	21	0.8	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	361	13.9				
Secretaries	55100	73	2.8	14	83	63	19.1
Bookkeeping, Accounting and Auditing Clerks	55338	163	6.3	9	178	148	40.9
Payroll and Timekeeping Clerks	55341	11	0.4	39	15	7	4.5
General Office Clerks	55347	69	2.7	17	81	57	22.7
All Other Office Machine Operators	56099	2	0.1	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	8	0.3	NA	-	-	NA
All Other Service Workers	59999	35	1.3	NA	-	-	NA

STAFFING PATTERNS
AUTOMOTIVE REPAIR, SERVICES, AND GARAGES
(SIC 75)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
SERVICE OCCUPATIONS	60000-69999	35	1.4				
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	29	1.1	21	35	23	10.0
All Other Service Workers	69999	6	0.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE AND MATERIAL HANDLING OCCUPATIONS	80000-98999	1,809	70.0				
First Line, Supervisors and Manager/Supervisors-Mechanics, Installers, and Repairers	81002	146	5.6	12	164	128	37.3
Maintenance Repairers, General Utility	85132	25	1.0	34	33	17	6.4
Automotive Mechanics	85302	513	19.9	9	560	466	51.8
Automotive Body and Related Repairers	85305	507	19.6	10	559	455	40.0
Bus and Truck Mechanics, and Diesel Engine Specialists	85311	90	3.5	36	122	58	8.2
Tire Repairers and Changers	85953	23	0.9	45	33	13	6.4
All Other Mechanics, Installers, and Repairers	85999	15	0.6	NA	-	-	NA
All Other Precision Metal Workers	89199	15	0.6	NA	-	-	NA
All Other Precision Workers	89999	15	0.6	NA	-	-	NA
Painters, Transportation Equipment	92947	34	1.3	35	46	22	7.3
All Other Hand Workers	93999	21	0.8	NA	-	-	NA
Truck Drivers, Light-Include Delivery and Route Workers	97105	59	2.3	38	81	37	9.1
All Other Motor Vehicle Operators	97199	48	1.8	NA	-	-	NA
Service Station Attendants	97805	90	3.5	30	117	63	8.2
Vehicle Washers and Equipment Cleaners	98905	133	5.1	15	153	113	17.3
All Other Helpers, Laborers, and Material Movers, Hand	98999	75	2.9	NA	-	-	NA

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 79)

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	68014	Amusement and Recreation Attendants	335	9.8
2	49023	Cashiers	317	9.3
3	79014	Gardeners and Groundskeepers, Except Farm	240	7.0
4	31321	Instructors and Coaches, Sports and Physical Training	217	6.3
5	65008	Waiters and Waitresses	168	4.9
6	68021	Ushers, Lobby Attendants and Ticket Takers	166	4.9
7	65005	Bartenders	147	4.3
8	85132	Maintenance Repairers, General Utility	142	4.2
9	65038	Food Preparation Workers	122	3.6
10	63047	Guards and Watch Guards	103	3.0

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	85132	Maintenance Repairers, General Utility	44.9
2	65005	Bartenders	39.1
3	55338	Bookkeeping, Accounting, and Auditing Clerks	37.7
	49023	Cashiers	37.7
5	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	34.8

STAFFING PATTERNS
AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
(SIC 79)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		3,419	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	191	5.6				
Financial Managers	13002	52	1.5	17	61	43	33.3
Marketing, Advertising, and Public Relations Managers	13011	51	1.5	20	61	41	31.9
Food Service and Lodging Managers	15026	52	1.5	16	60	44	30.4
General Managers and Top Executives	19005	10	0.3	21	12	8	7.2
All Other Managers and Administrators	19999	26	0.8	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	613	17.9				
Accountants and Auditors	21114	27	0.8	25	34	20	20.3
All Other Financial Specialists	21199	2	0.1	NA	-	-	NA
All Other Management Support Workers	21999	4	0.1	NA	-	-	NA
All Other Engineers	22199	2	0.1	NA	-	-	NA
All Other Engineering and Related Technicians and Technologists	22599	4	0.1	NA	-	-	NA
Recreation Workers	27311	15	0.4	49	22	8	4.3
Instructors and Coaches, Sports, and Physical Training	31321	217	6.3	24	269	165	27.5
All Other Teachers and Instructors	31399	113	3.3	NA	-	-	NA
All Other Health Professionals, Paraprofessionals and Technicians	32999	16	0.5	NA	-	-	NA
Public Relations Specialists and Publicity Writers	34008	14	0.4	19	17	11	14.5
Announcers, Radio and Television	34017	14	0.4	30	18	10	8.7
Athletes, Coaches, Umpires, and Related Workers	34058	42	1.2	9	46	38	11.6
All Other Professional, Paraprofessional and Technical Workers	39999	143	4.3	NA	-	-	NA

STAFFING PATTERNS
AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
(SIC 79)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
SALES OCCUPATIONS	40000-49999	329	9.6				
Cashiers	49023	317	9.3	13	359	275	37.7
All Other Sales and Related Workers	49999	12	0.3	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	308	9.0				
Secretaries	55100	37	1.1	20	45	29	24.6
Receptionists and Information Clerks	55305	71	2.1	28	91	51	26.1
Bookkeeping, Accounting and Auditing Clerks	55338	63	1.8	16	73	53	37.7
Payroll and Timekeeping Clerks	55341	14	0.4	36	19	9	13.0
General Office Clerks	55347	41	1.2	20	49	33	21.7
All Other Office Machine Operators	56099	56	1.6	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	2	0.1	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	24	0.7	NA	-	-	NA
SALES OCCUPATIONS	60000-69999	1,502	43.9				
Housekeepers	61008	26	0.8	27	33	19	13.0
All Other Service Supervisors and Manager/Supervisors	61099	32	0.9	NA	-	-	NA
Guards and Watch Guards	63047	103	3.0	13	117	89	20.3
All Other Protective Service Workers	63099	4	0.1	NA	-	-	NA
Bartenders	65005	147	4.3	16	171	123	39.1
Waiters and Waitresses	65008	168	4.9	20	202	134	23.2
Dining Room and Cafeteria Attendants, and Bartender Helpers	65014	62	1.8	32	82	42	13.0
Cooks, Restaurant	65026	62	1.8	19	74	50	24.6
Cooks, Specialty Fast Food	65032	59	1.7	24	73	45	17.4
Food Preparation Workers	65038	122	3.6	24	151	93	21.7
All Other Food Service Workers	65099	39	1.1	NA	-	-	NA
Maids and Housekeeping Cleaners	67002	17	0.5	38	23	11	5.8

STAFFING PATTERNS
AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
(SIC 79)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	95	2.8	23	117	73	34.8
All Other Cleaning and Building Service Workers, Except Private Households	67099	21	0.6	NA	-	-	NA
Amusement and Recreation Attendants	68014	335	9.8	18	397	273	29.0
Ushers, Lobby Attendants and Ticket Takers	68021	166	4.9	19	197	135	18.8
Child Care Workers	68038	14	0.4	42	20	8	7.2
All Other Service Workers	69999	30	0.9	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	251	7.4				
Gardeners and Groundskeepers, Except Farm	79014	240	7.0	18	284	196	30.4
All Other Agricultural, Forestry, Fishing and Related Workers	79999	11	0.4	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	225	6.6				
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	5	0.1	NA	-	-	NA
Maintenance Repairers, General Utility	85132	142	4.2	17	166	118	44.9
All Other Mechanics, Installers, and Repairers	85999	7	0.2	NA	-	-	NA
All Other Construction and Extractive Workers, Except Helpers	87999	21	0.6	NA	-	-	NA
All Other Precision Workers	89999	1	*	NA	-	-	NA
All Other Machine Operators and Tenders	92998	2	0.1	NA	-	-	NA
All Other Motor Vehicle Operators	97199	27	0.8	NA	-	-	NA

STAFFING PATTERNS
AMUSEMENT AND RECREATIONAL SERVICES, EXCEPT MOTION PICTURES
(SIC 79)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Transportation and Related Workers	97899	13	0.4	NA	-	-	NA
All Other Material Moving Equipment Operators	97999	2	0.1	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	5	0.1	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 80)

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	66008	Nursing Aides, Orderlies, and Attendants	2,006	14.5
2	32502	Registered Nurses	1,453	10.5
3	32102	Physicians and Surgeons	956	6.9
4	55105	Medical Secretaries	688	5.0
5	66002	Dental Assistants	608	4.4
6	32505	Licensed Practical Nurses	540	3.9
7	55305	Receptionists and Information Clerks	514	3.7
8	32908	Dental Hygienists	510	3.7
9	55347	General Office Clerks	373	2.7
10	27302	Social Workers, Medical and Psychiatric	325	2.4

THE SIX MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	32502	Registered Nurses	47.7
2	55105	Medical Secretaries	37.4
	55338	Bookkeeping, Accounting and Auditing Clerks	37.4
4	55305	Receptionists and Information Clerks	33.5
5	15008	Medicine and Health Services Managers	30.3
	32102	Physicians and Surgeons	30.3

STAFFING PATTERNS
HEALTH SERVICES
(SIC 80)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		13,789	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	567	4.1				
Financial Managers	13002	119	0.9	21	144	94	23.9
Marketing, Advertising, and Public Relations Managers	13011	10	0.1	33	13	7	3.9
Administrative Services Managers	13014	32	0.2	22	39	25	7.1
Medicine and Health Services Managers	15008	259	1.9	13	292	226	30.3
Food Service and Lodging Managers	15026	36	0.2	19	43	29	8.4
General Managers and Top Executives	19005	76	0.6	26	96	56	11.6
All Other Managers and Administrators	19999	35	0.2	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	5,449	39.5				
All Other Financial Specialists	21199	14	0.1	NA	-	-	NA
All Other Management Support Workers	21999	22	0.2	NA	-	-	NA
All Other Life Scientists	24399	15	0.1	NA	-	-	NA
Psychologists	27108	163	1.2	41	229	97	9.0
All Other Social Scientists	27199	2	*	NA	-	-	NA
Social Workers, Medical and Psychiatric	27302	325	2.4	18	382	268	18.1
Social Service Technicians	27308	66	0.5	26	83	49	5.2
All Other Teachers and Instructors	31399	34	0.2	NA	-	-	NA
Physicians and Surgeons	32102	956	6.9	6	1,011	901	30.3
Dentists	32105	278	2.0	13	313	243	18.1
Optometrists	32108	56	0.4	34	75	37	3.9
All Other Health Diagnosing and Treating Practitioners	32199	7	0.1	NA	-	-	NA
Occupational Therapists	32305	58	0.4	26	73	43	10.3
Physical Therapists	32308	92	0.7	18	109	75	14.2
Speech Pathologists and Audiologists	32314	15	0.1	37	21	9	5.2
Recreational Therapists	32317	80	0.6	11	89	71	11.6

STAFFING PATTERNS
HEALTH SERVICES
(SIC 80)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Therapists	32399	29	0.2	NA	-	-	NA
Registered Nurses	32502	1,453	10.5	7	1,554	1,352	47.7
Licensed Practical Nurses	32505	540	3.9	11	602	478	22.6
Physician's Assistants	32511	203	1.5	36	275	131	10.3
Opticians, Dispensing and Measuring	32514	97	0.7	30	126	68	5.8
Dietitians and Nutritionists	32521	33	0.2	32	44	22	8.4
Medical and Clinical Laboratory Technologists	32902	147	1.1	41	208	86	5.2
Dental Hygienists	32908	510	3.7	11	565	455	21.9
All Other Health Professional, Paraprofessional and Technical Workers	32999	200	1.4	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	54	0.4	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	49	0.4	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	3,066	22.2				
First Line Supervisors and							
Manager/Supervisors-Clerical and Administrative Support Occupations	51002	130	0.9	22	159	101	11.0
Medical Secretaries	55105	688	5.0	14	785	591	37.4
All Other Secretaries	55199	459	3.3	NA	-	-	NA
Receptionists and Information Clerks	55305	514	3.7	16	594	434	33.5
Typists	55308	180	1.3	18	213	147	13.5
File Clerks	55321	109	0.8	28	139	79	9.7
Bookkeeping, Accounting and Auditing Clerks	55338	266	1.9	15	306	226	37.4
Payroll and Timekeeping Clerks	55341	43	0.3	37	59	27	9.0
Billing, Cost and Rate Clerks	55344	96	0.7	25	120	72	8.4
General Office Clerks	55347	373	2.7	16	433	313	25.8
Computer Operators	56011	11	0.1	33	15	7	3.9
All Other Office Machine Operators	56099	78	0.6	NA	-	-	NA
Switchboard Operators	57102	56	0.4	19	66	46	9.7

STAFFING PATTERNS
HEALTH SERVICES
(SIC 80)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
All Other Material Recording, Scheduling, and Distributing Workers	58099	12	0.1	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	51	0.4	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	4,263	30.9				
Housekeepers	61008	123	0.9	25	154	92	9.0
All Other Service Supervisors and Manager/Supervisors	61099	8	0.1	NA	-	-	NA
Food Servers, Outside	65011	67	0.5	33	89	45	3.2
Cooks, Institution or Cafeteria	65028	156	1.1	7	167	145	11.0
Food Preparation Workers	65038	322	2.3	8	349	295	10.3
All other Food Service Workers	65099	52	0.4	NA	-	-	NA
Dental Assistants	66002	608	4.4	9	660	556	22.6
Medical Assistants	66005	144	1.0	40	201	87	7.1
Nursing Aides, Orderlies, and Attendants	66008	2,006	14.5	3	2,076	1,936	13.5
Home Health Aides	66011	175	1.3	12	196	154	11.6
Occupational Therapy Assistants and Aides	66021	10	0.1	40	14	6	3.2
All Other Health Service Workers	66099	64	0.5	NA	-	-	NA
Maids and Housekeeping Cleaners	67002	262	1.9	17	306	218	14.2
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	116	0.8	19	138	94	14.2
All Other Cleaning and Building Service Workers	67099	1	*	NA	-	-	NA
Social Welfare Service Aides	68035	114	0.8	16	132	96	6.5
All Other Service Workers	69999	35	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	6	0.1	NA	-	-	NA-

STAFFING PATTERNS
HEALTH SERVICES
(SIC 80)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	389	2.8				
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	3	*	NA	-	-	NA
Maintenance Repairers, General Utility	85132	63	0.5	30	82	44	7.1
All Other Mechanics, Installers and Repairers	85999	4	*	NA	-	-	NA
All Other Construction and Extractive Workers, Except Helpers	87999	4	*	NA	-	-	NA
All Other Precision Workers	89999	141	1.0	NA	-	-	NA
Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	92726	125	0.9	16	144	106	9.0
All Other Machine Operators and Tenders	92998	10	0.1	NA	-	-	NA
All Other Motor Vehicle Operators	97199	39	0.3	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 81)

RANK	OES CODE	OCCUPATIONAL TITLE	MAY 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	55102	Legal Secretaries	1,032	38.4
2	28108	Lawyers	973	36.2
3	28305	Paralegal Personnel	167	6.2
4	55338	Bookkeeping, Accounting, and Auditing Clerks	67	2.5
5	28302	Law Clerks	55	2.0
6	55311	Typists, Word Processor	47	1.7
7	55347	General Office Clerks	34	1.3
8	55305	Receptionists and Information Clerks	31	1.2
9	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	24	0.9
10	57102	Switchboard Operators	21	0.8

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	28108	Lawyers	100.0
2	55102	Legal Secretaries	89.2
3	28305	Paralegal Personnel	62.2
4	55338	Bookkeeping, Accounting and Auditing Clerks	51.4
5	55311	Typists, Word Processor	29.7

STAFFING PATTERNS
LEGAL SERVICES
(SIC 81)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,690	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	22	0.8	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL AND TECHNICAL OCCUPATIONS	20000-39999	1,240	46.1				
All Other Financial Managers	21199	4	0.1	NA	-	-	NA
All Other Management Support Workers	21999	1	*	NA	-	-	NA
Lawyers	28108	973	36.2	6	1,029	917	100.0
Law Clerks	28302	55	2.0	47	81	29	18.9
Paralegal Personnel	28305	167	6.2	16	193	141	62.2
Title Searchers	28308	18	0.7	24	22	14	13.5
All Other Legal Assistants and Technicians, Except Clerical	28399	7	0.3	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	15	0.6	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,385	51.5				
Legal Secretaries	55102	1,032	38.4	8	1,114	950	89.2
All other Secretaries	55199	58	2.1	NA	-	-	NA
Receptionists and Information Clerks	55305	31	1.2	40	43	19	21.6
Typists, Word Processor	55311	47	1.7	48	70	24	29.7
Bookkeeping, Accounting and Auditing Clerks	55338	67	2.5	25	84	50	51.4
General Office Clerks	55347	34	1.3	36	46	22	16.2
All Other Office Machine Operators	56099	12	0.4	NA	-	-	NA
Switchboard Operators	57102	21	0.8	47	31	11	24.3
All Other Clerical and Administrative Support Workers	59999	83	3.1	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	41	1.5				
All Other Protective Service Workers	63099	17	0.6	NA	-	-	NA

STAFFING PATTERNS
LEGAL SERVICES
(SIC 81)

OCCUPATIONAL TITLE	OES CODE	MAY 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	24	0.9	43	34	14	21.6
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	2	0.1	NA	-	-	NA

* LESS THAN 0.05 PERCENT

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 83)

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	31302	Teachers, Preschool and Kindergarten	533	9.6
2	27308	Social Service Technicians	340	6.1
3	53905	Teacher Aides and Educational Assistants, Clerical	339	6.1
4	68038	Child Care Workers	321	5.7
5	66008	Nursing Aides, Orderlies and Attendants	254	4.6
6	55100	Secretaries	201	3.6
7	31314	Teachers and Instructors, Vocational Education and Training	189	3.4
8	27305	Social Workers, Except Medical and Psychiatric	184	3.3
9	32502	Registered Nurses	181	3.2
10	65028	Cooks, Institution or Cafeteria	173	3.1

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	55338	Bookkeeping, Accounting and Auditing Clerks	48.0
2	13002	Financial Managers	44.8
3	55100	Secretaries	41.6
4	65028	Cooks, Institution or Cafeteria	40.0
5	31302	Teachers, Preschool and Kindergarten	30.4

STAFFING PATTERNS
SOCIAL SERVICES
(SIC 83)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		5,575	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	465	8.3				
Financial Managers	13002	119	2.1	10	131	107	44.8
Marketing, Advertising, and Public Relations Managers	13011	13	0.2	27	17	9	4.8
Administative Services Managers	13014	40	0.7	24	50	30	11.2
Education Administrators	15005	26	0.5	24	32	20	7.2
Medicine and Health Services Managers	15008	59	1.1	16	67	51	7.2
Food Service and Lodging Managers	15026	79	1.4	21	95	63	20.0
General Managers and Top Executives	19005	80	1.4	13	90	70	22.4
All Other Managers and Administrators	19999	49	0.9	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	2,250	40.4				
Accountants and Auditors	21114	14	0.3	32	18	10	7.2
All Other Financial Specialists	21199	1	*	NA	-	-	NA
Employment Interviewers, Private or Public Employment Service	21508	21	0.4	0	21	21	2.4
Personnel, Training, and Labor Relations Specialists	21511	20	0.4	33	27	13	5.6
All Other Management Support Workers	21999	61	1.1	NA	-	-	NA
All Other Mathematical Scientists	25319	3	0.1	NA	-	-	NA
Psychologists	27108	14	0.3	46	20	8	4.0
All Other Social Scientists	27199	1	*	NA	-	-	NA
Social Workers, Medical and Psychiatric	27302	97	1.7	34	130	64	8.0
Social Workers, Except Medical and Psychiatric	27305	184	3.3	18	217	151	18.4
Social Service Technicians	27308	340	6.1	20	407	273	20.8
Recreation Workers	27311	52	0.9	18	61	43	9.6

STAFFING PATTERNS
SOCIAL SERVICES
(SIC 83)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
Teachers, Preschool and Kindergarten	31302	533	9.6	8	577	489	30.4
Teachers, Elementary	31305	49	0.9	10	54	44	2.4
Teachers and Instructors, Vocational Education and Training	31314	189	3.4	22	230	148	5.6
Instructors, Nonvocational Education	31317	157	2.8	31	205	109	4.8
All Other Teachers and Instructors	31399	70	1.2	NA	-	-	NA
Vocational and Educational Counselors	31514	27	0.5	46	39	15	6.4
Occupational Therapists	32305	10	0.2	38	14	6	4.0
All Other Therapists	32399	29	0.5	NA	-	-	NA
Registered Nurses	32502	181	3.2	9	198	164	28.8
Licensed Practical Nurses	32505	99	1.8	15	113	85	19.2
Dietitians and Nutritionists	32521	30	0.5	20	36	24	12.0
All Other Health Professionals, Paraprofessionals, and Technicians	32999	22	0.4	NA	-	-	NA
All Other Professionals, Paraprofessionals and Technical Workers	39999	46	0.8	NA	-	-	NA
SALES OCCUPATIONS	40000-49999	23	0.4				
First Line, Supervisors and Manager/Supervisors-Sales and Related Occupations	41002	18	0.3	10	20	16	2.4
All Other Sales and Related Workers	49999	5	0.1	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	1,022	18.3				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	28	0.5	21	34	22	10.4
Teachers Aides and Educational Assistants, Clerical	53905	339	6.1	12	378	300	27.2
Secretaries	55100	201	3.6	8	217	185	41.6
Receptionists and Information Clerks	55305	45	0.8	18	53	37	12.8

STAFFING PATTERNS
SOCIAL SERVICES
(SIC 83)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Typists	55308	14	0.3	20	17	11	4.8
Typists, Word Processor	55311	20	0.4	30	26	14	5.6
File Clerks	55321	13	0.2	6	14	12	2.4
Bookkeeping, Accounting and Auditing Clerks	55338	143	2.6	10	157	129	48.0
Payroll and Timekeeping Clerks	55341	13	0.2	26	16	10	8.0
General Office Clerks	55347	63	1.1	25	79	47	14.4
Data Entry Keyers	56017	16	0.3	6	17	15	2.4
All Other Office Machine Operators	56099	63	1.1	NA	-	-	NA
Switchboard Operators	57102	11	0.2	16	13	9	5.6
All Other Material Recording, Scheduling and Distributing Workers	58099	1	*	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	52	0.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	1,416	25.4				
Housekeepers	61008	25	0.4	13	28	22	10.4
All Other Service Supervisors and Manager/Supervisors	61099	25	0.4	NA	-	-	NA
Waiters and Waitresses	65008	36	0.6	9	39	33	4.8
Dining Room and Cafeteria Attendants, and Bartender Helpers	65014	14	0.3	49	21	7	4.0
Cooks, Institution or Cafeteria	65028	173	3.1	8	186	160	40.0
Food Preparation Workers	65038	162	2.9	9	176	148	24.0
All Other Food Service Workers	65099	20	0.4	NA	-	-	NA
Nursing Aides, Orderlies, and Attendants	66008	254	4.6	9	277	231	16.0
Home Health Aides	66011	56	1.0	40	78	34	2.4
All Other Health Service Workers	66099	99	1.8	NA	-	-	NA
Maids and Housekeeping Cleaners	67002	104	1.9	21	126	82	16.8
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	78	1.4	14	89	67	26.4
Social Welfare Service Aides	68035	34	0.6	21	41	27	2.4

* LESS THAN 0.05 PERCENT

STAFFING PATTERNS
SOCIAL SERVICES
(SIC 83)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
Child Care Workers	68038	321	5.7	19	382	260	16.8
All Other Service Workers	69999	15	0.3	NA	-	-	NA
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	31	0.6				
Gardeners and Groundskeepers, Except Farm	79014	18	0.3	23	22	14	8.8
All Other Agricultural, Forestry, Fishing and Related Workers	79999	13	0.3	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	368	6.6				
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	81002	41	0.7	34	55	27	10.4
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	8	0.2	NA	-	-	NA
Maintenance Repairers, General Utility	85132	35	0.6	6	37	33	14.4
All Other Mechanics, Installers and Repairers	85999	2	*	NA	-	-	NA
Carpenters	87102	44	0.8	39	61	27	2.4
All Other Construction and Extractive Workers, Except Helpers	87999	1	*	NA	-	-	NA
Precision Production Occupations	89000	9	0.2	NA	-	-	NA
Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	92726	17	0.3	7	18	16	8.0
Hand Working Occupations, Including Assemblers and Fabricators	93000	6	0.1	NA	-	-	NA
Bus Drivers	97108	65	1.2	41	92	38	8.0
Bus Drivers, School	97111	24	0.4	18	28	20	4.0
All Other Motor Vehicle Operators	97199	88	1.6	NA	-	-	NA

STAFFING PATTERNS
SOCIAL SERVICES
(SIC 83)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE HIGH	RANGE LOW	PERCENT OF FIRMS REPORTING
All Other Transportation and Material Moving Equipment Operators	97989	5	0.1	NA	-	-	NA
All Other Helpers, Laborers and Material Movers, Hand	98999	23	0.4	NA	-	-	NA

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK
(SIC 86)

RANK	OES CODE	OCCUPATIONAL TITLE	APRIL 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	65005	Bartenders	634	24.1
2	55100	Secretaries	160	6.1
3	55338	Bookkeeping, Accounting and Auditing Clerks	156	5.9
4	31321	Instructors and Coaches, Sports and Physical Training	128	4.9
5	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	124	4.7
6	65008	Waiters and Waitresses	109	4.1
7	21511	Personnel, Training, and Labor Relations Specialists	99	3.8
8	55347	General Office Clerks	84	3.2
9	13002	Financial Managers	82	3.1
10	19005	General Managers and Top Executives	77	2.9

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	65005	Bartenders	46.9
2	55338	Bookkeeping, Accounting, and Auditing Clerks	41.6
3	55100	Secretaries	37.2
4	67005	Maids and Housekeeping Cleaners	32.7
5	13002	Financial Managers	25.7

STAFFING PATTERNS
MEMBERSHIP ORGANIZATIONS
(SIC 86)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		2,629	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	234	8.9				
Financial Managers	13002	82	3.1	13	93	71	25.7
Personnel, Training, and Labor Relations Managers	13005	12	0.5	43	17	7	2.7
General Managers and Top Executives	19005	77	2.9	11	86	68	23.9
All Other Managers and Administrators	19999	63	2.4	NA	-	-	NA
PROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	607	23.1				
Accountants and Auditors	21114	44	1.7	24	55	33	14.2
Personnel, Training, and Labor Relations Specialists	21511	99	3.8	21	120	78	14.2
Compliance Officers and Enforcement Inspectors, Except Construction	21911	10	0.4	50	15	5	2.6
All Other Management Support Workers	21999	61	2.3	NA	-	-	NA
All Other Social Scientists	27199	7	0.2	NA	-	-	NA
Recreation Workers	27311	80	3.0	21	96	64	10.6
Instructors, Nonvocational Education	31317	20	0.8	33	27	13	3.5
Instructors and Coaches, Sports and Physical Training	31321	128	4.9	19	153	103	5.3
All Other Teachers and Instructors	31399	6	0.2	NA	-	-	NA
Public Relations Specialists and Publicity Writers	34008	29	1.1	28	37	21	6.2
All Other Professionals, Paraprofessionals and Technical Workers	39999	123	4.7	NA	-	-	NA
SALES AND RELATED OCCUPATIONS	40000-49999	64	2.4				
Cashiers	49023	17	0.6	46	25	9	2.7
All Other Sales and Related Workers	49999	47	1.8	NA	-	-	NA

STAFFING PATTERNS
MEMBERSHIP ORGANIZATIONS
(SIC 86)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	656	25.0				
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	51002	22	0.8	28	28	16	7.0
Travel Clerks	53802	25	1.0	17	29	21	2.7
Teacher Aides and Educational Assistants, Clerical	53905	40	1.5	24	50	30	4.4
Secretaries	55100	160	6.1	10	177	143	37.2
Receptionists and Information Clerks	55305	54	2.1	14	61	47	15.0
Typists	55308	10	0.4	15	12	8	2.7
Bookkeeping, Accounting and Auditing Clerks	55338	156	5.9	10	171	141	41.6
Payroll and Timekeeping Clerks	55341	15	0.6	26	19	11	6.2
General Office Clerks	55347	84	3.2	17	98	70	20.4
All Other Office Machine Operators	56099	4	0.2	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	1	*	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	85	3.2	NA	-	-	NA
SALES OCCUPATIONS	60000-69999	958	36.4				
All Other Service Supervisors and Manager/Supervisors	61099	21	0.8	NA	-	-	NA
Bartenders	65005	634	24.1	7	676	592	46.9
Waiters and Waitresses	65008	109	4.1	24	135	83	13.3
Dining Room and Cafeteria Attendants, and Bartender Helpers	65014	17	0.6	30	22	12	2.7
All Other Food Service Workers	65099	12	0.5	NA	-	-	NA
Maids and Housekeeping Cleaners	67002	12	0.5	38	17	7	3.5
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	124	4.7	11	137	111	32.7
Child Care Workers	68038	21	0.8	14	24	18	3.5
All Other Service Workers	69999	8	0.3	NA	-	-	NA

STAFFING PATTERNS
MEMBERSHIP ORGANIZATIONS
(SIC 86)

OCCUPATIONAL TITLE	OES CODE	APRIL 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70000-79999	26	1.0				
Gardeners and Groundskeepers, Except Farm	79014	13	0.5	41	18	8	4.4
All Other Agricultural, Forestry, Fishing, and Related Workers	79999	13	0.5	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	84	3.2				
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	81002	31	1.2	29	40	22	4.4
All Other First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance and Related	81099	5	0.2	NA	-	-	NA
Maintenance Repairers, General Utility	85132	40	1.5	24	49	31	8.8
All Other Machine Operators and Tenders	92998	2	0.1	NA	-	-	NA
All Other Motor Vehicle Operators	97199	6	0.2	NA	-	-	NA

THE TEN OCCUPATIONS EMPLOYING THE LARGEST NUMBER OF WORKERS LISTED BY ORDER OF RANK (SIC 89)

RANK	OES CODE	OCCUPATIONAL TITLE	JUNE 1984 ESTIMATED EMPLOYMENT	PERCENT OF TOTAL
1	21114	Accountants and Auditors	507	14.6
2	22514	Drafters	383	11.0
3	55100	Secretaries	263	7.6
4	22521	Surveying and Mapping Technicians and Technologists	193	5.6
5	55338	Bookkeeping, Accounting, and Auditing Clerks	169	4.9
6	22302	Architects, Except Landscape and Marine	150	4.3
7	22311	Surveying and Mapping Scientists	136	3.9
8	22121	Civil Engineers, Including Traffic	132	3.8
9	22505	Engineering Technicians and Technologists	127	3.7
10	55347	General Office Clerks	61	1.7

THE FIVE MOST FREQUENTLY REPORTED OCCUPATIONS LISTED BY ORDER OF RANK

RANK	OES CODE	OCCUPATIONAL TITLE	PERCENT OF FIRMS
1	55100	Secretaries	59.7
2	22514	Drafters	41.8
3	55338	Bookkeeping, Accounting and Auditing Clerks	40.3
4	21114	Accountants and Auditors	35.8
5	55347	General Office Clerks	23.9

STAFFING PATTERNS
MISCELLANEOUS SERVICES
(SIC 89)

OCCUPATIONAL TITLE	OES CODE	JUNE 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
TOTAL ALL OCCUPATIONS		3,470	100.0				
MANAGERS AND ADMINISTRATORS	10000-19999	175	5.0				
Financial Managers	13002	57	1.6	26	72	42	20.9
General Managers and Top Executives	19005	56	1.6	16	65	47	17.9
All Other Managers and Administrators	19999	62	1.8	NA	-	-	NA
ROFESSIONAL, PARA-PROFESSIONAL, AND TECHNICAL OCCUPATIONS	20000-39999	2,366	68.2				
Accountants and Auditors	21114	507	14.6	11	564	450	35.8
All Other Financial Specialists	21199	59	1.7	NA	-	-	NA
All Other Management Support Workers	21999	78	2.2	NA	-	-	NA
Civil Engineers, Including Traffic	22121	132	3.8	28	169	95	16.4
Mechanical Engineers	22135	45	1.3	31	59	31	10.4
All Other Engineers	22199	178	5.1	NA	-	-	NA
Architects, Except Landscape and Marine	22302	150	4.3	31	197	103	13.4
Surveying and Mapping Scientists	22311	136	3.9	35	184	88	13.4
Electrical and Electronic Engineering Technicians and Technologists	22505	127	3.7	17	149	105	10.4
Mechanical Engineering Technicians and Technologists	22511	19	0.5	31	25	13	4.5
Drafters	22514	383	11.0	12	430	336	41.8
Surveying and Mapping Technicians and Technologists	22521	193	5.6	28	246	140	17.9
All Other Engineering and Related Technicians and Technologists	22599	113	3.3	NA	-	-	NA
All Other Physical Scientists	24199	17	0.5	NA	-	-	NA
Systems Analysts, Electronic Data Processing	25102	24	0.7	8	26	22	4.5
All Other Mathematical Scientists	25319	2	0.1	NA	-	-	NA
All Other Social Scientists	27199	3	0.1	NA	-	-	NA
All Other Professional, Paraprofessional and Technical Workers	39999	200	5.8	NA	-	-	NA

STAFFING PATTERNS
MISCELLANEOUS SERVICES
(SIC 89)

OCCUPATIONAL TITLE	OES CODE	JUNE 1984 EST. EMPL.	PERCENT OF TOTAL	RELATIVE ERROR	RANGE		PERCENT OF FIRMS REPORTING
					HIGH	LOW	
SALES AND RELATED OCCUPATIONS	40000-49999	33	1.0	NA	-	-	NA
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50000-59999	804	23.2				
Secretaries	55100	263	7.6	12	293	233	59.7
Receptionists and Information Clerks	55305	30	0.9	27	38	22	22.4
Typists, Word Processor	55311	33	0.9	30	43	23	16.4
Bookkeeping, Accounting, and Auditing Clerks	55338	169	4.9	23	207	131	40.3
General Office Clerks	55347	61	1.7	26	77	45	23.9
All Other Office Machine Operators	56099	97	2.8	NA	-	-	NA
All Other Material Recording, Scheduling, and Distributing Workers	58099	17	0.5	NA	-	-	NA
All Other Clerical and Administrative Support Workers	59999	134	3.9	NA	-	-	NA
SERVICE OCCUPATIONS	60000-69999	21	0.6	NA	-	-	NA
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	80000-98999	71	2.0				
All Other Inspectors, Testers, and Related Occupations	83099	41	1.2	NA	-	-	NA
All Other Mechanics, Installers, and Repairers	85999	6	0.2	NA	-	-	NA
All Other Precision Workers	89999	6	0.2	NA	-	-	NA
All Other Transportation and Material Moving Equipment Operators	97989	5	0.1	NA	-	-	NA
All Other Helpers, Laborers, and Material Movers, Hand	98999	13	0.3	NA	-	-	NA

METHODOLOGY

A. Sample and Survey Response

The second quarter of the 1983 report of employment and wages covered by the New Hampshire Unemployment Compensation Law was used as the sampling frame for this survey. The selected nonmanufacturing establishments were stratified by three digit SIC'S (Standard Industrial Classification) and by size class. Any unit with two hundred fifty or more employees was automatically included in the sample.

The actual reported survey period varied by industry and was either the week including April 12, May 12, or June 12, 1984 as designated by the U.S. Bureau of Labor Statistics.

Usable responses were received from 1,875 establishments or 75 percent of the 2,502 units surveyed. Employment reported by these units accounted for 76 percent of the total surveyed employment. The survey was conducted by mail and consisted of an initial mailing and two followups. Phone calls were made when needed to insure the validity of the estimates.

B. Estimating Procedure

All usable employer questionnaires were separated into seven employment size groups by industry. For example, establishments with employment of 4 - 9 would be in one size class and those with employment of 10 - 19 would be in another size class, etc. One class size in one industry represents an estimating cell. All establishments in a given estimating cell were assigned a sample weight which is the inverse of the sampling ratio. For example, if the reported employment in a specific occupation for an establishment is 100, and only one out of two establishments in this estimating cell is included in the sample, the weight assigned to this establishment would be the inverse of 1/2 which is two, and for estimating purposes, the 100 employment would have a representation of 200 (2 X 100). The employment for any specific occupation in each establishment is blown-up (inflated) by its sample weight and summed for all sample establishments in the cell. A ratio is then obtained by dividing this sum by the weighted total employment. This ratio is multiplied by the benchmark employment for that estimating cell corresponding to the survey month of April, May, or June 1984 depending on the industry being estimated. This yields the occupational make-up of the estimating cell for that month. Finally, the employment in like occupations are summed across all employment size classes within the three-digit SIC (Standard Industrial Classification) level to arrive at a total industry employment for each occupation.

C. Variance

Variance is defined as the difference between an expected universe count of an occupation and the actual sample count obtained in a survey. It is computed for each occupation at the estimating cell level. An estimating cell is composed of all establishments in one size class in one industry. The variance for an occupational estimate is the squared and weighted sample observations times a series of correction factors. The sum of the squared and weighted sample observations is derived from summation formulas dealing with weights assigned to establishments, total employment reported by

establishments, and employment reported by establishments for specific occupations. The series of correction factors are derived from summation formulas dealing with benchmark employment less employment for volunteer reports, total employment reported by establishments, and the square of estimating cell benchmark factors (which are calculated by dividing the cell's benchmark employment by weighted total employment for the cell).

D. Sampling Error

Sampling error is defined as the difference between the estimated data derived from a sample and the data which would be expected if the entire universe of employers were surveyed. It is calculated by taking the square root of the variance of the estimates. In this publication, sampling error is measured on a 68 percent degree of confidence level or one standard deviation. For example, if an estimate of 100 has an associate sampling error of 10 the probability is 68 percent, or two chances out of three, that the true population value would be somewhere between 90 and 110.

E. Relative Error

Relative error expresses the sampling error as a percentage of the estimate. It is derived by dividing the sampling error (or square root of the variance) by the estimate and then multiplying by 100. For example, to illustrate the use of relative error, automotive repair & services (SIC 75) lists an estimated total of 513 automotive mechanics with a relative error of 9 percent. This indicates, at the 68 percent confidence level, the probability is two chances out of three that the results of a universe count of automobile mechanics would not differ from the estimate by more than 47 or an estimated high of 560 or 10w of 466. Any specific occupation with ten or more employees and a relative error of 50 percent or less was published separately in this report except in industries 16, 17, 65, 70, 72 and 89 where a relatively poor survey response restricted the relative error to the 35 percent level. Relative error was computed only for specific occupations and not for residual categories or occupational groupings.

F. Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, such errors could arise from faulty questionnaire design, ineffective processing techniques, inaccuracy of data furnished, or the inability to collect data as defined. Non-respondents are a source of nonsampling error for which corrective measures are not available. The possibility of these errors was recognized from the beginning and every effort was made for their elimination.

Percent of firms reporting each occupation could not be readily calculated for groups of occupations, but only for specific occupations.

APPENDIX

The OES coding structure provides for the allocation of occupations reported into seven major categories. Specifically these occupational categories are as follows:

10000-19999 I. Managerial and Administrative Occupations

Includes top and middle level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of industrial, commercial, governmental or other establishments. Typical examples are: Corporate Officers; Plant Managers; Branch Managers; District Managers; Production Superintendents; General Superintendents; and Managers of such departments as budget, purchasing, sales and distribution, advertising, public relations, personnel and training, etc.

20000-39000 II. Professional, Paraprofessional and Technical Occupations

Includes persons concerned with the theoretical or practical aspects of such fields as science, art, education, law and business relations where substantial post-secondary educational preparation or equivalent on-the-job training or experience is required. Typical examples are: Architects; Engineers; Metallurgists; Physicists; Mathematicians; Statisticians; Biologists; Economists; Accountants and Auditors; Purchasing Agents; Public Relations Practitioners; Personnel and Training Specialists (other than departmental managers); Lawyers; Physicians and Surgeons; Registered Nurses; Editors and Writers; Teachers; Air Traffic Controllers; Computer Programmers; Drafters; and Chemical Technicians (except Health).

40000-49000 III. Sales and Related Occupations

Includes persons selling goods or services and others directly related to sales. Typical examples are: Sales Agents and Placers; Insurance; Sales Engineers; Cashiers; and Salespersons, Retail.

50000-59999 IV. Clerical and Administrative Support Occupations

Includes persons performing office and plant clerical tasks such as typing, filing, computer operating, records keeping (personnel, stock, production, billing, etc.); and mail preparation and distributing.

60000-69999 V. Service Occupations

Includes workers in occupations relating to protective service, food service, health assisting service, cleaning and building service and personal service.

70000-79999 VI. Agricultural, Forestry, Fishing and Related Occupations

Includes workers concerned with agricultural production, forestry, and fishing. Also included in this division are agriculture related workers such as animal caretakers and groundskeepers.

80000-98999 VII. Production, Construction, Operating, Maintenance and Material Handling Occupations

Includes all skilled, semiskilled and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair and material handling operations.

ANNUAL AVERAGE EMPLOYMENT IN NEW HAMPSHIRE

NONMANUFACTURING*

1979 - 1984

SIC	INDUSTRY	1979	1980	1981	1982	1983	1984
14	Mining and Quarrying	435	410	382	377	396	404
15	Building Construction - General Contractors	6,650	5,683	4,926	4,966	5,844	7,539
16	Construction Other Than Building Construction	5,190	4,930	6,331	8,712	8,966	5,845
17	Construction - Special Trade Contractors	9,058	8,804	9,120	9,134	10,051	16,913
60	Banking	5,613	5,923	6,106	6,340	6,686	7,011
61	Credit Agencies Other Than Banks	1,295	1,373	1,446	1,487	1,586	1,870
62	Security and Commodity Brokers	166	192	207	255	338	419
63	Insurance	6,620	7,000	7,429	7,329	7,141	7,420
64	Insurance Agents and Brokers	2,009	2,109	2,138	2,162	2,194	2,359
65	Real Estate	2,390	2,248	2,300	2,429	2,725	3,198
66,67	Combinations of Real Estate, Insurance, Loans, Law Offices, Holding and Other Investment Offices	416	435	484	464	435	606
70	Hotels, Rooming Houses and Camps	6,389	6,480	7,129	6,885	7,085	7,749
72	Personal Services	3,279	3,308	3,405	3,493	3,860	4,368
73	Business Services	7,266	7,997	8,820	9,710	11,403	12,781
75	Automotive Repair, Services and Garages	2,102	2,022	2,090	2,124	2,317	2,508
76	Miscellaneous Repair Services	650	652	746	761	810	818
78,79	Motion Pictures, Amusement and Recreation Services	4,177	4,023	4,563	4,627	4,426	4,846
80	Health Services	20,683	21,929	23,623	24,587	25,510	27,094
81	Legal Services	1,806	1,911	2,092	2,295	2,460	2,721
82	Educational Services	7,235	7,741	8,100	8,286	8,395	8,642
83,84	Social Services, Museums, Art Galleries, Botanical and Zoological Gardens	3,736	4,250	4,546	4,636	5,262	5,999
86	Membership Organizations	2,582	2,746	2,684	2,626	2,623	2,795
89	Miscellaneous Services	2,741	2,733	3,480	3,879	4,110	3,628
TOTAL		102,488	104,899	112,152	117,564	124,623	132,533

* This table includes employment data for Hospitals (SIC 806) and Education (SIC 82) which were not Covered in the OES Survey for Selected Nonmanufacturing Industries.

ESTIMATES COVERING THE FOLLOWING OCCUPATIONS WERE NOT SHOWN
SEPARATELY BECAUSE THEY DID NOT MEET THE CRITERIA FOR PUBLICATION (SEE APPENDIX)
THEY WERE HOWEVER ADDED TO THE APPROPRIATE "ALL OTHER" OR RESIDUAL CATEGORY
AN X IS PLACED IN THE SQUARE CORRESPONDING TO THE SIC AND OCCUPATION ADDED TO THE "ALL OTHER" CATEGORY

	STANDARD INDUSTRIAL CLASSIFICATION																
OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Accountants and Auditors		X					X		X	X			X	X			
Actuaries																	X
Administrative Services Managers	X	X		X	X		X	X	X	X	X	X				X	X
Adjustment Clerks					X	X					X						
Air Hammer Operators	X	X	X														
Ambulance Drivers and Attendants, Except Emergency Medical Technicians										X							
Amusement and Recreation Attendants									X						X		
Animal Caretakers, Except Farm												X			X	X	
Announcers, Except Radio and Television												X					
Appraisers, Real Estate					X	X	X	X									
Architects, Except Landscape and Marine	X																
Automotive Mechanics	X	X	X							X							
Bakers, Bread and Pastry													X				
Barbers										X			X				
Bill and Account Collectors						X		X						X			
Billing, Cost and Rate Clerks	X	X		X			X			X		X		X		X	X
Billing, Posting, and Calculating Machine Operators			X	X	X								X	X	X		

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Biological Scientists													X				
Blasters and Explosives Workers		X	X														
Brick Masons		X	X														
Broadcast Technicians												X					
Brokers, Real Estate							X										
Budget Analysts				X	X		X		X		X	X			X		X
Bus and Truck Mechanics, and Diesel Engine Specialists	X		X							X							
Bus Drivers												X				X	
Camera and Photographic Equipment Repairers												X					
Carpenters		X	X						X			X	X				
Carpet Installers		X	X														
Cashiers										X					X		
Ceiling Tile Installers and Acoustical Carpenters			X														
Chemical Engineers																	X
Child Care Workers													X				
Civil Engineers, Including Traffic	X	X	X														
Civil Engineering Technicians and Technologists	X	X															X
Clergy													X		X	X	
Coin and Vending Machine Servicers and Repairers												X					
Combined Food Preparation and Service Workers									X								
Computer Programmers	X				X					X		X		X	X		X

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Computer Programmer Aides	X			X	X							X			X		X
Computer Operators, Except Peripheral Equipment		X					X			X				X	X	X	X
Concrete and Terrazzo Finishers	X		X														
Construction and Building Inspectors	X		X			X											
Construction Managers		X															
Cooks, Institution or Cafeteria									X							X	
Cooks, Restaurant																X	
Cooks, Short Order									X			X	X				
Cooks, Specialty Fast Food									X								
Corrective and Manual Arts Therapists															X		
Correspondence Clerks				X		X											
Cost Estimators		X									X						X
Counter Attendants-Lunchroom, Coffee Shop, or Cafeteria									X								
Counter and Rental Clerks												X					
Crane and Tower Operators	X		X														
Credit Analysts				X													
Credit Authorizers				X	X												
Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders		X	X														
Custom Tailors and Sewers										X							
Dancers and Choreographers												X					
Data Entry Keyers, Except Composing	X	X					X	X			X		X	X			X

OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
	STANDARD INDUSTRIAL CLASSIFICATION																
Designers, Except Interior Designers																	X
Detectives and Investigators, Except Public						X								X			
Dining Room and Cafeteria Attendants, and Bartender Helpers													X				
Directors, Religious Activities and Education																X	
Dispatchers-Except Police, Fire and Ambulance		X	X														
Drafters		X	X			X											
Dragline Operators		X															
Driver/Sales Workers															X		
Drywall Installers	X																
Duplicating Machine Operators				X	X	X								X			X
Earth Drillers Except Oil and Gas			X														
Economists, Including Market Research Analysts				X		X											
Education Administrators																X	
Electrical and Electronic Engineers		X	X									X					X
Electrical and Electronic Engineering Technicians and Technologists												X					
Electric Home Appliance and Power Tool Repairers			X														
Electrical Powerline Installers and Repairers			X														
Electricians	X	X				X			X			X	X				
Electromedical and Biomedical Equipment Repairers													X				
Elevator Operators								X	X								
Embalmers										X							

	STANDARD INDUSTRIAL CLASSIFICATION																
OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Engineering and Related Technicians and Technologists									X							X	
Engineers									X								
Excavating and Loading Machine Operators	X																
Fence Erectors			X														
File Clerks	X		X						X	X		X		X			X
Financial Analysts, Statistical				X		X											
Financial Managers														X			
Fitters, Structural Metal-Precision			X														
First Line Supervisors and Manager/Supervisors-Clerical and Administrative Support Occupations	X	X	X					X		X	X	X		X			X
First Line Supervisors and Manager/Supervisors-Construction Trades and Extractive Workers						X		X				X			X		
First Line Supervisors and Manager/Supervisors-Helpers, Laborers and Material Movers, Hand	X		X														
First Line Supervisors and Manager/Supervisors-Mechanics, Installers and Repairers	X	X	X							X			X				
First Line Supervisors and Manager/Supervisors-Sales and Related Occupations	X				X				X	X		X				X	X
First Line Supervisors and Manager/Supervisors-Service	X	X		X	X			X			X						
First Line Supervisors and Manager/Supervisors-Transportation, and Material Moving Machine and Vehicle Occupations	X	X													X		
Food and Beverage Preparation and Service Occupations				X	X	X				X							
Food Preparation Workers																X	
Food Service and Lodging Managers						X		X								X	
Freight, Stock and Material Movers, Hand	X		X							X	X	X			X		X
Funeral Attendants										X							
Furnace, Kiln, Oven, Drier, Or Kettle Operators and Tenders										X							

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION 15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Gardeners and Groundskeepers, Except Farm	X	X	X			X				X			X	X			
General Managers and Top Executives			X				X	X			X			X			
General Office Clerks									X								
Geologists, Geophysicists, and Oceanographers																	X
Glaziers			X														
Grader, Dozer, and Scraper Operators	X																
Guards and Watch Guards	X							X	X		X		X			X	
Hairdressers, Hairstylists, and Cosmetologists									X				X				
Handworking Occupations, Including Assemblers and Fabricators						X									X		
Hard Tile Setters			X														
Helpers-Brick and Stone Masons, and Hard Tile Setters		X	X														
Helpers-Carpenters and Related		X	X														
Helpers-Extractive Workers			X														
Helpers-Painters, Paperhangers, Plasterers and Stucco Masons	X		X														
Helpers-Plumbers, Pipefitters, and Steamfitters	X																
Helpers-Roofers			X														
Hoist and Winch Operators	X																
Hosts and Hostesses-Restaurant, Lounge or Coffee Shop												X					
Industrial Engineers, Except Safety																	X
Industrial Truck and Tractor Operators			X														
Inspectors and Related Occupations									X								

	STANDARD INDUSTRIAL CLASSIFICATION																
OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Instructional Coordinators															X	X	X
Instructors and Coaches, Sports and Physical Training									X	X							
Instructors, Nonvocational Education											X						
Insulation Workers			X														
Insurance Appraisers Auto Damage							X										
Insurance Examining Clerks				X	X	X											
Interviewing Clerks, Except Personnel and Social Welfare													X				
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	X	X	X														X
Landscape Architects								X									X
Lawyers					X	X									X	X	
Lecturers										X							
Legal Secretaries						X											
Library Assistants and Bookmobile Drivers															X		X
Librarians, Professional						X								X		X	X
Life Scientists															X	X	
Loan and Credit Clerks							X	X									
Machinery Maintenance Mechanics										X			X				
Machinery Maintenance Workers		X															
Machinists											X						X
Machine Feeders and Offbearers										X							
Machine Setters, Set-Up Operators, Operators, and Tenders				X													

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION 15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Maids and Housekeeping Cleaners										X							
Mail Clerks, Except Mail Machine Operators and Postal Service					X		X							X	X		X
Mail Machine Operators, Preparation and Handling				X											X	X	
Maintenance Repairers, General Utility	X	X		X	X												X
Management Analysts				X													X
Manicurists										X							
Marketing, Advertising, and Public Relations Managers	X	X					X	X		X						X	X
Mathematical Technicians						X											
Mechanical Engineers			X														
Mechanic and Repairer Helpers		X	X								X						
Medical and Clinical Laboratory Technicians													X				
Medical Records Technicians and Technologists													X		X		
Medical Scientists													X				
Menders-Garments, Linens, and Related													X				
Messengers					X			X						X			X
Metal Fabricators, Structural Metal Products	X		X														
Millwrights	X		X														
Mining Engineers, Including Mine Safety		X															
Mobile Heavy Equipment Mechanics, Except Engines	X																
Music Directors, Singers, Composers and Related Workers											X						
Musicians, Instrumental								X			X				X		

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
News and Street Venders, Telephone Solicitors, and Door-To-Door Sales Workers												X					
Nuclear Engineers																	X
Nursing Instructors													X				
Occupational Therapy Assistants and Aides															X		
Operations and Systems Researchers and Analysts, Except Computer				X													
Operating Engineers		X	X														
Order Clerks-Materials, Merchandise, and Service										X							X
Painters and Paperhangers, Construction and Maintenance						X			X	X		X	X		X		
Paralegal Personnel						X											
Parking Lot Attendants									X			X					
Paving, Surfacing, and Tamping Equipment Operators	X		X														
Payroll and Timekeeping Clerks	X					X	X			X				X			
Peripheral EDP Equipment Operators					X										X	X	X
Personnel Clerks, Except Payroll and Timekeeping					X				X			X	X		X		X
Personnel, Training, and Labor Relations Managers	X	X					X		X			X	X	X	X		X
Personnel, Training, and Labor Relations Specialists	X				X		X		X			X	X	X			X
Pharmacists													X				
Photographers						X											
Photographic Processing Machine Operators and Tenders										X							
Physical Scientists								X									
Physical and Life Science Technicians and Technologists																X	

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION																
	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Physical and Corrective Therapy Assistants and Aides													X		X		
Physical Therapists															X		
Physicists and Astronomers																	X
Pile Driving Operators			X														
Pipelayers			X														
Plasterers and Stucco Masons			X														
Plumbers, Pipefitters and Steamfitters								X					X				
Podiatrists													X				
Precision Compositors, Typesetters and Arrangers						X											
Precision Dental Laboratory Technicians													X				
Precision Dyers										X							
Precision Inspectors, Testors, and Graders																	X
Pressers, Hand										X							
Pressing Machine Operators and Tenders-Textile, Garment and Related Materials													X				
Producers, Directors, Actors, and Other Entertainers												X					
Procurement Clerks	X												X				
Production, Planning, and Expediting Clerks	X	X															
Production Inspectors, Testers, Graders, Sorters, Samplers and Weighers		X								X							
Proofreaders and Copy Makers																	X
Psychiatric Aides													X				
Public Relations Specialists and Publicity Writers				X	X	X							X		X		

	STANDARD INDUSTRIAL CLASSIFICATION																
OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Pump Operators			X														
Purchasing Agents, Except Wholesale, Retail and Farm Products				X		X			X		X		X			X	X
Purchasing Managers	X	X			X	X			X			X	X		X	X	
Radiologic Technicians													X				
Radiologic Technologists													X				
Real Estate Clerks							X										
Recreational Therapists															X		
Receptionists and Information Clerks	X	X									X						
Registered Nurses						X			X	X		X					X
Riggers			X														
Roofers	X		X														
Safety Engineers, Except Mining	X	X															
Sales Agents and Placers, Insurance								X									
Sales Agents, Selected Business Services																	X
Sales, Engineers	X	X	X														
Salespersons, Retail					X				X		X						
Sales Representatives, Except Scientific and Related Products or Services and Retail	X	X								X							X
Sales Representatives, Scientific and Related Products and Services-Except Retail																	X
Sawing Machine Operators and Tenders	X		X														
Secretaries		X															

OCCUPATIONAL TITLE	STANDARD INDUSTRIAL CLASSIFICATION 15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Sewers, Hand										X							
Sewing Machine Operators, Non-Garment													X				
Shampooers										X							
Sheet Metal Duct Installers	X																
Sheet Metal Workers	X	X	X														
Shoe and Leather Workers and Repairers-Precision										X							
Social Workers, Except Medical and Psychiatric													X			X	
Statistical Clerks				X									X				X
Statisticians															X		
Stationary Engineers			X														
Stenographers	X			X	X			X				X	X	X		X	
Stock Clerks-Stockroom Warehouse or Storage Yard	X				X				X		X	X	X		X	X	X
Stone Masons			X														
Structural Metal Workers	X		X														
Surveying and Mapping Scientists			X														
Surveying and Mapping Technicians and Technologists												X					
Switchboard Operators	X						X	X		X	X	X				X	X
Systems Analysts, Electronic Data Processing	X				X							X	X		X		
Tapers			X														
Tax Preparers																	X

	STANDARD INDUSTRIAL CLASSIFICATION																
OCCUPATIONAL TITLE	15	161	17	60	61	63	64	65	70	72	75	79	80	81	83	86	89
Teachers and Instructors, Vocational Education and Training																X	
Teachers, Preschool and Kindergarten																X	
Technical Assistants, Library																	X
Telephone and Cable TV Line Installers and Repairers		X	X														
Title Examiners and Abstractors								X						X			
Title Searchers								X									
Traffic, Shipping, and Receiving Clerks									X				X				X
Transit Clerks					X												
Truck Drivers, Light-Include Delivery and Route Workers									X			X	X		X	X	X
Typists		X						X	X	X	X	X		X			X
Typists, Word Processor			X		X				X	X	X	X	X			X	
Underwriters				X	X												
Upholsterers											X						
Urban and Regional Planners															X		X
Vocational and Educational Counselors																X	
Waiters and Waitresses													X				
Weighers, Measurers, Checkers and Samplers-Recordkeeping		X															
Welders and Cutters	X	X	X								X						
Welfare Eligibility Workers and Interviewers															X	X	
Woodworking Machine Operators and Tenders, Except Sawing	X																
Writers and Editors																X	

Publishing Criteria

The criteria used for publishing occupational estimates were as follows:

1) A response rate of at least 70 percent of the benchmark employment.

2) Industry employment of 1,000 or more.

3) A maximum relative error of 50 percent for firms with a least a 75 percent response for employment.

4) A maximum relative error of 35 percent for firms with a response rate less than 75 percent but greater than or equal to 70 percent.

5) Three or more employers reporting an occupation.

6) No one firm reporting 50 percent of the occupational estimate or two firms combined reporting 75 percent of the occupational estimate.

7) A mimimum occupational employment of 10.

Estimates for an occupation which did not meet publication criteria were added to the appropriate residual category.

AVAILABLE OCCUPATIONAL PROFILES
AS OF FEBRUARY 1986

INDUSTRY	SURVEY YEAR	DATE PUBLISHED
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1984	February 1986
MANUFACTURING	1983	March 1985
HOSPITALS	1983	March 1985
WHOLESALE AND RETAIL TRADE	1982	October 1983
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1982	October 1983
FEDERAL, STATE AND LOCAL GOVERNMENT	1982	October 1983
CONTRACT CONSTRUCTION, FINANCE, INSURANCE AND REAL ESTATE, SERVICES	1981	NONE
MANUFACTURING	1980	August 1981
HOSPITALS	1980	March 1981
WHOLESALE AND RETAIL TRADE	1979	December 1980
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1979	December 1980
FEDERAL, STATE AND LOCAL GOVERNMENT	1979	November 1980
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1978	November 1980
CONTRACT CONSTRUCTION, FINANCE, INSURANCE, AND REAL ESTATE, SERVICES	1978	November 1979

FUTURE PUBLICATIONS	SURVEY YEAR
ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES	1985
FEDERAL, STATE AND LOCAL GOVERNMENT	1985
WHOLESALE AND RETAIL TRADE	1985
TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES	1985
MANUFACTURING	1986
HOSPITALS	1986